

SEARCH REQUEST FORM

Scientific and Technical Information Center

Access DB#

86596

Requester's Full Name: Colin Pian Examiner #: 78710 Date: 2/12/03
Art Unit: 1636 Phone Number 30 6-0283 Serial Number: 09/1758962
Mail Box and Bldg/Room Location: _____ Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Expression of Foreign genes from plant virus vectors

Inventors (please provide full names): Simon Santa-Cruz et al.

Earliest Priority Filing Date: 1/7/2001

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Please search SEQ ID NO: 1 , and also do a nucleotide search
oligo

Edward Hart
Technical Info. Specialist
STIC/BioTech
CMI 6B02 Tel: 305-9203

BEST AVAILABLE COPY

STAFF USE ONLY

Type of Search	Vendors and cost where applicable
NA Sequence (#)	STN <u>Revenue to API</u>
AA Sequence (#)	Dialog
Structure (#)	Questel/Orbit
Bibliographic	Dr.Link
Litigation	Lexis/Nexis
Fulltext	Sequence Systems <u>D4</u>
Patent Family	WWW/Internet
Other	Other (specify)

score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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GenCore Version 5.1.3

SUMMARIES

OM nucleic - nucleic search, using sw model
Run on: February 19, 2003, 06:08:11 ; Search time 2601 seconds
Title: US-09-758-962-1
Perfect score: 188
Sequence: 1 gtcgacggatcgataagct.....gaagaaagactcaccatgg 188
Scoring table: OLIGO_NUC
Gapop 60.0 , Gapext 60.0
Searched: 2054640 seqs, 14551402878 residues
Word size : 0

Total number of hits satisfying chosen parameters: 4109280
Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Listing first 45 summaries

Result No.	Score	Query Match	Length	DB ID	Description
1	149	79.3	1537	14 S68164	S68164 transport p
2	149	79.3	6312	14 TMVRTPCP	Z29370 Tobacco mos
3	42	22.3	6311	14 BRU03387	U03387 turnip vein
4	38	20.2	1568	14 MDVFR	L41561 Gallid herp
5	35	18.6	2126	6 AR096739	AR096739 Sequence
6	35	18.6	2126	6 AR096004	AR096004 Sequence
7	35	18.6	2126	6 AR116595	AR116595 Sequence
8	35	18.6	2126	6 AR121154	AR121154 Sequence
9	35	18.6	7560	6 AR153837	AR153837 Sequence
10	34	18.1	110	10 AX027145	AB021145 Rattus no
11	34	18.1	338	1 CSPRG5R	Z47159 Calothrix D
12	34	18.1	369	11 G16087	G16087 chicken STS
13	34	18.1	373	11 G01691	G01691 chicken STS
14	34	18.1	397	1 CSPRG13R	Z47173 Calothrix D
15	34	18.1	487	4 HSPCRAG	L27850 Equus cabal
16	34	18.1	741	6 AX156405	AX156405 Sequence
17	34	18.1	759	6 E11482	E11482 cDNA encodi
18	34	18.1	924	6 A59874	A59874 Sequence 3
19	34	18.1	1043	8 CAR011383	X90729 B. napus mRN
20	34	18.1	1097	8 AB049721	AJ011383 Cicer ari
21	34	18.1	1181	6 E14788	AB049721 Pisum sat
22	34	18.1	1221	10 MMIGBPI	E1788 cDNA encodi
23	34	18.1	1248	6 AX304651	XK5499 M. musculus
24	34	18.1	1318	6 E3794	AX304651 Sequence
25	34	18.1	1438	9 AB067774	E3794 GABA BP pol
26	34	18.1	1464	9 AB085846	AB067774 Homo sapi
27	34	18.1	1638	6 AR107064	AX286589 Sequence
28	34	18.1	1638	6 AX136732	AR107064 Sequence
29	34	18.1	1638	6 AX136732	AR16224 Sequence
30	34	18.1	1680	5 XLU09632	U09632 Xenopus lae
31	34	18.1	1680	5 XLU09632	AB085846 Chlorobial
32	34	18.1	1845	8 AB085846	AX286589 Sequence
33	34	18.1	1889	6 AX049343	AR16732 Sequence
34	34	18.1	1958	6 A94995	A94995 Sequence 1
35	34	18.1	1958	6 AX022639	AX022639 Sequence
36	34	18.1	1958	6 E38366	E38366 Binding par
37	34	18.1	1958	6 E39010	E39010 Nucleic aci
38	34	18.1	1990	8 CCA01353	AJ401353 Cuscuta c
39	34	18.1	1998	8 CPI401355	AJ401355 Cuscuta p
40	34	18.1	2142	8 SOJ0265	AU000265 Spinacia
41	34	18.1	2171	4 AB051103	AB051103 Felis cat
42	34	18.1	2185	4 AB051103	AB092424 Sequence
43	34	18.1	2199	3 LME292039	AJ792039 Leishmani
44	34	18.1	2200	6 AR050076	AB050076 Crucifer
45	34	18.1	2378	14 AB003936	AB003936 Crucifer

ALIGNMENTS

RESULT 1
LOCUS S68164 1537 bp DNA linear VRL 23-SBP-1994
DEFINITION transport protein, capsid protein [Tobamovirus, host: cruciferous plants, Genomic, 1537 nt].
ACCESSION S68164
VERSION S68164.1 GI:544600
KEYWORDS SOURCE
ORGANISM Tobamovirus host: cruciferous plants.
REFERENCE 1 (bases 1 to 1537)
Dorokhov, Iu.L., Ivanov, P.A., Novikov, V.K., Yefimov, V.A. and
Atabekov, I.G., Tobamovirus of cruciferous plants: nucleotide sequence of genes of
em_htg_other:
em_htg_rnd:
em_htg_mean:
em_htg_vrt:
em_sy:
em_hugo_hum:
em_hugo_mus:
em_hugo_other:

Pred. No. is the number of results predicted by chance to have a

FEATURES	source	the transport protein, capsid protein, and 3'-terminal untranslated region.
JOURNAL	Dokl. Akad. Nauk. 332 (4), 518-522 (1993)	Tobamovirus of cruciferous plants: nucleotide sequence of genes of the transport protein, capsid protein, and 3'-terminal untranslated region.
MEDLINE	94003923	Tobamovirus of cruciferous plants: nucleotide sequence of genes of the transport protein, capsid protein, and 3'-terminal untranslated region.
PUBMED	8200923	Tobamovirus of cruciferous plants: nucleotide sequence of genes of the transport protein, capsid protein, and 3'-terminal untranslated region.
REMARK	GenBank staff at the National Library of Medicine created this entry [NCBI gibbsq 142918] from the original journal article.	This sequence comes from Fig. 2.
FEATURES	Location/Qualifiers	Location/Qualifiers
gene	I..1537	I..1537
CDS	/organism="tobamovirus" /db_xref="taxon:12234" 103..906 /gene="transport protein"	/organism="tobamovirus" /db_xref="taxon:12234" 103..906 /gene="transport protein"
gene	/note="This sequence comes from Fig. 2; Protein sequence is in conflict with the conceptual translation; mismatch(95[R>G])" /codon_start=1	/note="This sequence comes from Fig. 2; Protein sequence is in conflict with the conceptual translation; mismatch(95[R>G])" /codon_start=1
CDS	/product="transport protein" /protein_id="RAB29319_1" /db_xref="GI:544601" /translation="MSIVSYEPKVSDIEILSKKEELPKALTRKTVISTKDIISVK ESEICDIDLINLPDIDYRIVGILGAVFTGEMLVPDKVGTTISIDKRAJNSKEC VIGYRAAKSKRKFQKLVNPVNTSDAKRKPQWHRVRIQKLIEAGWQPRALEUVS VAMTNTNVMGIREKVAINDPDEGEGDFVUSAALKAVDIFKRKKVVEK GVWSKVKIRPEKTAGPDSEFLNLKEENVLOHQKPESPVPPVERSGVRAHSDA" 830..1219	/product="transport protein" /protein_id="RAB29319_1" /db_xref="GI:544601" /translation="MSIVSYEPKVSDIEILSKKEELPKALTRKTVISTKDIISVK ESEICDIDLINLPDIDYRIVGILGAVFTGEMLVPDKVGTTISIDKRAJNSKEC VIGYRAAKSKRKFQKLVNPVNTSDAKRKPQWHRVRIQKLIEAGWQPRALEUVS VAMTNTNVMGIREKVAINDPDEGEGDFVUSAALKAVDIFKRKKVVEK GVWSKVKIRPEKTAGPDSEFLNLKEENVLOHQKPESPVPPVERSGVRAHSDA" 830..1219
gene	/gene="capsid protein" /product="capsid protein" /db_xref="GI:544602" /translation="MSVNTNPNOYQFAAVWAEPIPLNQOISALOSYOTQAARDT VROFSNLISAVVAPSRPFPVVNSAVTKPLVEMALMSFDTNRNLIETEECSR PASEVELTRHNVLNMRPPPLEVKFSCC" 423 a 274 c 406 g 433 t 1 others	/gene="capsid protein" /product="capsid protein" /db_xref="GI:544602" /translation="MSVNTNPNOYQFAAVWAEPIPLNQOISALOSYOTQAARDT VROFSNLISAVVAPSRPFPVVNSAVTKPLVEMALMSFDTNRNLIETEECSR PASEVELTRHNVLNMRPPPLEVKFSCC" 423 a 274 c 406 g 433 t 1 others
BASE COUNT		
ORIGIN	Query Match 79.3%; Score 149; DB 14; Length 1537; Best Local Similarity 100.0%; Pred. No. 1.6e-74; Matches 149; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	Query Match 79.3%; Score 149; DB 14; Length 1537; Best Local Similarity 100.0%; Pred. No. 1.6e-74; Matches 149; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
FEATURES	source	source
CDS	/misc_feature	/misc_feature
BASE COUNT		
ORIGIN	Db 681 CGAAATCGCGATTCGGTGCACCATTAAGGGGTGACAACTTAAAGAGGAAA 86 QY 27 CGAAATCGCGATTCGGTGCACCATTAAGGGGTGACAACTTAAAGAGGAAA 86 QY 87 GANGTTGAGAAGGGGTGATAAGTAGTAGTAAAGTAGACAGCCGGAGAGTACGCCGG 146 Db 741 GAAGTTGAGAAGGGGTGATAAGTAGTAGTAAAGTAGACAGCCGGAGAGTACGCCGG 800 QY 147 TCCGTGATGGTTATTGAAAGAGAA 175 Db 801 TCCGTGATGGTTATTGAAAGAGAA 829	Db 681 CGAAATCGCGATTCGGTGCACCATTAAGGGGTGACAACTTAAAGAGGAAA 740 QY 27 CGAAATCGCGATTCGGTGCACCATTAAGGGGTGACAACTTAAAGAGGAAA 86 QY 87 GANGTTGAGAAGGGGTGATAAGTAGTAGTAAAGTAGACAGCCGGAGAGTACGCCGG 146 Db 741 GAAGTTGAGAAGGGGTGATAAGTAGTAGTAAAGTAGACAGCCGGAGAGTACGCCGG 800 QY 147 TCCGTGATGGTTATTGAAAGAGAA 175 Db 801 TCCGTGATGGTTATTGAAAGAGAA 829
RESULT 2		
TMWRTPCP		
LOCUS	TMWRTPCP	6312 bp RNA linear VRL 16-SBP-1997
DEFINITION	Tobacco mosaic virus (<i>Crucifer</i>) genomic RNA for RNA-dependent RNA polymerase; 12k protein; transport protein	Tobacco mosaic virus (<i>Crucifer</i>) genomic RNA for RNA-dependent RNA polymerase; 12k protein; transport protein and coat protein.
ACCESSION	229370	229370
VERSION	229370.1	229370.1 GI:488913
KEYWORDS	Tobacco mosaic virus.	Tobacco mosaic virus; tobacco mosaic virus.
SOURCE		
ORGANISM	Tobacco mosaic virus	Tobacco mosaic virus; <i>Solanum lycopersicum</i> L.
REFERENCE	1 (bases 1 to 6311)	(bases 1 to 6312)


```

MEKISNFLIDMRYEARQYVQLQDIAVRSRDSNFVQTSRSGDWRDFYDALLPGNS
TETMFADTMNRDLSINNDKVRDIDFDSVSKVOLPQFQPLKPRTRPAEMRTGIL
ENLVAKRMRNAPDLGIDTIDETASLIVKVKWMDSYKERSGTNTMTESFRN
LSQKESSTQGOLADPFDVLPDAPYDESKYEVTRKIKSOKQKLDLSTSODEYPAQTYVHSK
INAIFGPMSSELRMRLRIDSSEKLYTRKIKSOKQKLDLSTSODEYPAQTYVHSK
YDKSQNEFCAVEKIWKLGIDEWLAWKWKQHCKTLLKDTAGVKCWLWORKSD
VTTFIGNTIATACLSKSMPPMDKVKAFCGDSLIVPKGIDLDPQAGANLMWPE
AKLERKKGYFCERYVIIHGDGLVYVDDPLKJSLGCKKIRDVHLEELRSCDVA
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68. . 3391

note="contains capping methyltransferase and RNA helicase
domains"

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/db_xref="GI:514836"

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/transl_table="10" /protein_id="AAC02782.1" /db_xref="GI:514836" /codon_start-1

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function="Intercellular transport of infection"
codon_start-1
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/protein_id="AAC02784.1"
/db_xref="GI:514838"

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VAMTTNNVWVGMGLREKVVAIINDPVGEGFQDVEFDSVAKDNDERKKVVE
DHGAVMTCSAVERSVKAVKVRGKALBIPITLELEGKLTFTQDAKFLLEGKQDNTV
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5603. . 5676

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/db_xref="GI:514839"

/translation="MYNNTNPNQOYFAAWAEPIMLNQCMMSALSQSYQTQARDT
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PSASEYANATORVDDTVAARSQIOLLSLSLSNGHGYGMNRAEFAELLPPWTAPAT"
56195 C 1586 g 1720 t

FEATURES	Location/Qualifiers	Db	30	GTCGACGGTATCGATAAGCTGTGATATCGAATTCTGT	64
source	1..2126 /organism="unknown"				
BASE COUNT	317 a				
ORIGIN	763 c				
RESULT 7					
AR116595	AR116595	2126 bp	DNA	linear	PAT 16-MAY-2001
DEFINITION	Sequence 1 from patent US 6133420.				
ACCESSION	AR116595				
VERSION	AR116595.1				
KEYWORDS					
SOURCE	Unknown.				
ORGANISM	Unclassified.				
REFERENCE	1 (bases 1 to 2126)				
AUTHORS	Ames, R.S., Jr., Sarau, H.M., Foley, J.J., Shabon, U., Bergsma, D. and Chambers, J.K.				
TITLE	GPR14 polypeptides				
JOURNAL	Patent: US 6133420-A 1 17-OCT-2000;				
FEATURES	Location/Qualifiers				
source	1..2126 /organism="unknown"				
BASE COUNT	317 a				
ORIGIN	763 c				
RESULT 8					
AR121154	AR121154	2126 bp	DNA	linear	PAT 16-MAY-2001
DEFINITION	Sequence 1 from patent US 61359700.				
ACCESSION	AR121154				
VERSION	AR121154.1				
KEYWORDS					
SOURCE	Unknown.				
ORGANISM	Unclassified.				
REFERENCE	1 (bases 1 to 2126)				
AUTHORS	Alayr, N.V., Ames, R.S., Arnold, A.Romanic., Al-Barazanj, K., Berzma, D.J., Chambers, J., Douglas, S.A., Foley, J.J., Gout, B., Khandoudi, N., Sarau, H.M., Shabon, U. and Willette, R.N.				
TITLE	Method of finding agonist and antagonist to human and rat GPR14				
JOURNAL	Patent: US 61359700-A 1 12-DEC-2000;				
FEATURES	Location/Qualifiers				
source	1..2126 /organism="unknown"				
BASE COUNT	317 a				
ORIGIN	763 c				
RESULT 9					
AR13837	AR13837	7580 bp	DNA	linear	PAT 08-AUG-2001
DEFINITION	Sequence 4 from patent US 6235975.				
ACCESSION	AR13837				
VERSION	AR13837.1				
KEYWORDS					
SOURCE	Unknown.				
ORGANISM	Unclassified.				
REFERENCE	1 (bases 1 to 7560)				
AUTHORS	Harada, J.J., Lotan, T., Ohto, M.-a., Goldberg, R.B. and Fischer, R.L.				
TITLE	Leafy cotyledon genes and methods of modulating embryo development in transgenic plants				
FEATURES	Location/Qualifiers				
source	1..7560 /organism="unknown"				
BASE COUNT	2378 a				
ORIGIN	1326 c				
RESULT 10					
AB027145	AB027145	110 bp mRNA	mRNA	linear	ROD 06-JUL-2000
LOCUS	Rattus norvegicus mRNA for CDCCrel-1F, partial cds.				
DEFINITION	Best local Similarity 100.0%; Pred. No. 9.8e-09;				
ACCESSION	AB027145				
VERSION	AB027145.1				
KEYWORDS	CDCrel-1/PNUTL1				
SOURCE	Rattus norvegicus (strain:wistar) neonatal male neocortex cDNA to mRNA.				
ORGANISM	Rattus norvegicus				
REFERENCE	1 (sites)				
AUTHORS	Toda, S., Kajii, Y., Sato, M. and Nishikawa, T.				
TITLE	Reciprocal expression of infant- and adult-prefering transcripts of Cdcrel-1, a sentin gene in the rat neocortex				
JOURNAL	Biochem. Biophys. Res. Commun. 273 (2), 723-728. (2000)				
MEDLINE	20334336				
REFERENCE	2 (bases 1 to 110)				
AUTHORS	Toda, S., Kajii, Y. and Nishikawa, T.				
TITLE	Direct Submission				
JOURNAL	Submitted (11-MAY-1999) Shigenobu Toda, National Institute of Neuroscience, NENP, Department of Mental Disorder Research; 4-1-1 Ogawahigashi, Kodaira, Tokyo 187-8502, Japan (E-mail:toda@ppb.med.tohoku.ac.jp), Tel:81-43-46-1714, Fax:81-43-46-1744				
FEATURES	Location/Qualifiers				
source	1..110 /organism="Rattus norvegicus"				
BASE COUNT	377 t				
ORIGIN	659 g				
RESULT 11					
OY	1	GTCCGACGGTATCGATAAGCTGTGATATCGAATTCTGT	35		
Query Match	18.6%; Score 35; DB 6; Length 2126;				
Best Local Similarity	100.0%; Pred. No. 8.6e-09;				
Matches	35; Conservative 0; Mismatches 0; Indels 0; Gaps 0;				
source	1..2126 /organism="unknown"				
BASE COUNT	317 a				
ORIGIN	763 c				
RESULT 12					
OY	1	GTCCGACGGTATCGATAAGCTGTGATATCGAATTCTGT	35		
Query Match	18.6%; Score 35; DB 6; Length 2126;				
Best Local Similarity	100.0%; Pred. No. 8.6e-09;				
Matches	35; Conservative 0; Mismatches 0; Indels 0; Gaps 0;				
source	1..2126 /organism="unknown"				
BASE COUNT	317 a				
ORIGIN	763 c				

REFERENCE	Phasianidae; Gallus.	TITLE	Singular over-representation of HIPI in DNA from many cyanobacteria
AUTHORS	1 (bases 1 to 373)	JOURNAL	Unpublished
JOURNAL	Cheng, H.H.	REFERENCE	3 (bases 1 to 397)
COMMENT	Unpublished (1994)	AUTHORS	Robinson,N.J.
	Synonyms: B367	TITLE	Direct Submission
Contact:	Hans H. Cheng	JOURNAL	Submitted (16-DEC-1994) Nigel J. Robinson, Biochemistry and
	Avian Disease and Oncology Laboratory	Genetics, The Medical School, University of Newcastle, Framlington	Place, Newcastle upon Tyne, NE2 4HH, UK
USPA-ARS	3606 E. Mount Hope Rd, East Lansing, MI 48823, USA	4 (bases 1 to 397)	Robinson,N.J., Robinson,P.J., Gupta,A., Blasby,A.J., Whittton,B.A.
	Tel: 5173376758	and Morley,A.P.	
	Fax: 5173376776		
	Email: hcheng@pilot.msu.edu		
Primer A:	TCATCAGAGGCCAGACAA	JOURNAL	Nucleic Acids Res. 23 (5), 729-735 (1995)
Primer B:	ATGATGAAACCCATCTAAC	MEDLINE	DNA from many cyanobacteria
STS size:	136	PUBMED	95223777
PCR Profile:		FEATURES	/clone="AG13R"
		source	Location/Qualifiers
Deactivation:	94 degrees C for 1 minute		1. .397
Annealing:	48 degrees C for 1 minute		/organism="Calothrix sp."
Polymerization:	72 degrees C for 1 minute		/strain="D253"
PCR Cycles:	30		/db_xref="taxon:1187"
Protocol:			/clone="AG13R"
Template:	50-100 ng	BASE COUNT	105 a 91 c 88 g 113 t
Primer:	0.1 uM	ORIGIN	/clone.lib="LZAPcalothrix-LIB"
dNTPs:	200 uM		
Taq Polymerase:	0.4 units/uL		
Total Vol:	25 uL		
Buffer:			
KCl:	1.5 mM		
Tris-HCl:	50 mM		
PH:	10		
Triton X-100:	0.1 %		
Location/Qualifiers			
FEATURES			
source			
Query Match	18.1%; score 34; DB 11; Length 373;	Query Match	18.1%; score 34; DB 1; Length 397;
STS	Best Local Similarity 100.0%; Pred. No. 2.7e-08;	Best Local Similarity 100.0%; Pred. No. 2.8e-08;	
primer_bind	3. .138	Matches	0; Mismatches 0; Indels 0; Gaps 0;
primer_bind	3. .22	QY	1 GTCCACGGATCGATAAGCTGTATCGAATTG 34
BASE COUNT	98 a complement(119-.138)	Db	90 GTCGCACGGTATCGATAAGCTGTATCGAATTG 57
ORIGIN	81 C 81 g 113 t		
RESULT 14			
CSPAG13R/C			
LOCUS	CSPAG13R	HRSTCRAG	
DEFINITION	Equus caballus (clone T131) T-cell receptor DNA, V-region.	LOCUS	487 bp
ACCESSION	L277850	DEFINITION	Equus caballus (clone T131) T-cell receptor DNA, V-region.
VERSION	1.27850_1	VERSION	1.27850_1
KEYWORDS	T-cell receptor; V-region;	KEYWORDS	
SOURCE	Equus caballus (clone: T131) DNA.	ORGANISM	Equus caballus
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Perissodactyla; Equidae; Equus.	REFERENCE	1 (bases 1 to 487)
REFERENCE	Schrenzel,M.D., Watson,J.L. and Ferrick,D.A.	AUTHORS	
AUTHORS	Title Characterization of horse (Equus caballus) T-cell receptor beta chain genes	TITLE	
JOURNAL	Immunogenetics 40 (2), 135-144 (1994)	JOURNAL	
MEDLINE	9429284	MEDLINE	
PUBMED	7913080	PUBMED	
FEATURES		FEATURES	
source		source	
Calothrix sp.		Location/Qualifiers	
Calothrix sp.			1. .487
Bacterium: Cyanobacteria; Nostocales; Rivulariaceae; Calothrix.			/organism="Equus caballus"
1 (bases 1 to 397)			/db_xref="taxon:9796"
Robinson,N.J., Robinson,P.J. and Gupta,A.			/clone="T131"
Genomic DNA sequence obtained in the process of generating a random			<1. .>430
sequence database greater than 10 kb from single sequence runs from			/note="This CDS feature is included to show the
random clones of a Calothrix D253 library			translational qualifiers on V-region features are illegal."
unpublished			/codon_start=2
(bases 1 to 397)			/protein_id="AA65661_1"
Robinson,N.J., Robinson,P.J., Gupta,A., Blasby,A.J., Whittton,B.A.			/db_xref="GI: 790761"
Journal Reference			/translation="NSTVSLSLNSARGHSLSERGVLYSKPLKMLFLIJGPGNG
Reference			GIGVLYSOSRPAACKNGSSYEMECRVLDQTAQWVWYQORANGITPVATSNOGLSS
Authors			TYEQGPVKPISHNLTSILCAHPANSGLYFSCAR"
Journal			<1. .430
Reference			/product="T cell receptor"
Authors			<31. .481
Robinson,N.J., Robinson,P.J., Gupta,A., Blasby,A.J., Whittton,B.A.			/note="DJ"
and Morley,A.P.			

ORIGIN

Query Match		18.1%; Score 34; DB 4; Length 487;
Best Local Similarity	100.0%; Pred. No. 2.8e-08;	DB 4; Length 487;
Matches	34; Conservative	Mismatches 0;
QY	GTCGAGGGTATCGATANCTGATATCGATTGCG	34
Db	GTGAGGGTATCGATAGCTGATATCGATTGCG	40

Search completed: February 19, 2003, 07:57:01
Job time : 2608 secs

Copyright (c) 1993 - 2003 Compugen Ltd.

Om nucleic - nucleic search, using sw model

Run on: February 19, 2003, 06:07:16 ; Search time 229 Seconds
 (without alignments)
 1848.802 Million cell updates/sec

Title: US-09-758-962-1

Perfect score: 188

Sequence: 1 gtcgacggatcataagct.....gaagaaggactaccatgg 188

Scoring table: OLIGO-NUC

Word size : 0

Searched: 2185239 seqs, 1125999159 residues

Total number of hits satisfying chosen parameters: 4370478

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Listing first 45 summaries

Database :

1: _N_Genesed_101002:*

2: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA1980.DAT:*

3: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA1981.DAT:*

4: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA1982.DAT:*

5: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA1983.DAT:*

6: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA1984.DAT:*

7: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA1985.DAT:*

8: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA1986.DAT:*

9: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA1987.DAT:*

10: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA1988.DAT:*

11: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA1989.DAT:*

12: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA1991.DAT:*

13: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA1992.DAT:*

14: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA1993.DAT:*

15: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA1994.DAT:*

16: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA1995.DAT:*

17: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA1996.DAT:*

18: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA1997.DAT:*

19: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA1998.DAT:*

20: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA1999.DAT:*

21: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA2000.DAT:*

22: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA2001.DAT:*

23: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA2001B.DAT:*

24: /SIDS2/gcdata/geneseq/geneseqn-emb1/NA2002.DAT:*

RESULT 1

ID ABQ76058 standard; DNA; 188 BP.

XX AC ABQ76058;

XX DT 30-SEP-2002 (first entry)

XX DE Clone TXS.GFP-IRES-CP containing IRES DNA sequence.

XX KW IRES: internal ribosome entry site; viral protein; bicistronic; virus infection; coat protein; protein replacement therapy; crop; nutritional value; seed oil content; ds.

XX OS Synthetic.

XX PN W0200255719-A2.

XX PD 18-JUN-2002.

XX PF 09-JAN-2002; 2002W0-US0123.

PR 09-JAN-2001; 2001US-0758962.

PA (BIOS-) BIOSOURCE GENETICS CORP.

PI Santa-Cruz S, Pogue GP, Toth RL, Chapman S, Carr F;

XX DR WPI; 2002-557828/59.

PT New polypeptides contained in plant virus expression vectors, as gene expression tools, in protein replacement therapy or for intervening in Human prostate exp Human prostate exp

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	188	100	0 188 24 ABQ76058	Clone TXS GFP-IRES
2	181	96	3 187 24 ABQ76052	Clone TXS GFP-IRES
C 3	149	79	3 187 24 ABQ76060	Clone TXS GFP-SERI
C 4	149	79	3 251 24 ABQ76059	Clone TXS GFP-HIRE
C 5	44	23	4 180 24 ABQ76063	Clone SC19 contai
C 6	43	22	9 181 24 ABQ76064	Clone SC19 contai
C 7	35	18	6 122 24 ABQ76061	Clone TXS GFP-IRES
C 8	35	18	6 444 23 ABV3422	Human prostate exp
C 9	35	18	6 444 23 ABV45268	Human prostate exp

PD 18-JUL-2002.
 XX PN WO200255719-A2.
 PF 09-JAN-2002; 2002WO-US01123.
 XX XX
 PR 09-JAN-2001; 2001US-0758962.
 XX XX
 PA (BIOS-) BIOSOURCE GENETICS CORP.
 XX PI Santa-Cruz S., Pogue GP, Toth RL, Chapman S, Carr F;
 XX DR WPI; 2002-557829/59.
 XX PS Claim 4; Fig 3; 33pp; English.
 CC This invention describes a novel isolated polynucleotide comprising an internal ribosome entry site (IRES) nucleotide sequence, an open reading frame (ORF1) encoding a peptide and an ORF2 encoding a viral protein, where the IRES is located between ORF1 and ORF2. The novel polyribonucleotides of the invention are used in the construction of a recombinant potato virus X-based viral vector containing a nucleic acid construct comprising a bicistronic message with an intervening IRES. The constructs are used in a method for regulating the rate at which a virus infection spreads in a host. Regulation is achieved by placing the nucleic acid construct comprising an internal ribosomes entry site upstream of a coat protein gene, where the IRES is chosen by the rate of infection of the viral vector on a host in the presence of that IRES. The polyribonucleotides of the invention are used in the construction of a recombinant potato virus X-based viral vector containing a nucleic acid construct comprising a bicistronic message with an intervening IRES. The constructs are used in a method for regulating the rate at which a virus infection spreads in a host. Regulation is achieved by placing the nucleic acid construct comprising an internal ribosomes entry site upstream of a coat protein gene, where the IRES is chosen by the rate of infection of the viral vector on a host in the presence of that IRES. The polyribonucleotide and vectors of the invention are useful for directing rapid and high-level expression of foreign genes, in mature, differentiated, plant tissue. These are particularly useful in protein replacement therapy, or for intervening in a metabolic pathway to improve the nutritional value of a crop or alter the oil content of the seed. This sequence represents a fragment of the clone TXS.GFP.SER1-CP containing an IRES region described in the method of the invention.

Sequence 187 BP; 45 A; 47 C; 27 G; 68 T; 0 other;

Query Match 79.3%; Score 149; DB 24; Length 187;

Matches 149; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 29 AATTCGCTCGATTCGGTGCAGCATTTAACGGTTGACAACTTAAAGAGAAAAGA 88

Db 180 AATTCGCTCGATTCGGTGCAGCATTTAACGGTTGACAACTTAAAGAGAAAAGA 121

Oy 89 AGGTGAGAGAAAGGTGTAGTAGATAAGTACAGACCGGAGAAGTACGCCGTC 148

Db 120 AGGTGAGAGAAAGGTGTAGTAGATAAGTACAGACCGGAGAAGTACGCCGTC 61

Oy 149 CTGATTCGTTAATTGAAAGAGAAA 177

Db 60 CTGATTCGTTAATTGAAAGAGAAA 32

RESULT 4 ABQ76059 ID ABQ76059 standard; DNA: 251 BP.

XX AC ABQ76059; ID ABQ76053 standard; DNA: 180 BP.

XX DT 30-SEP-2002 (first entry)

XX DE Clone TXS.GFP-HIRES-CP containing IRES DNA sequence.

XX KW IRES; internal ribosome entry site; viral protein; bicistronic; virus infection; coat protein; protein replacement therapy; crop; nutritional value; seed oil content; ds.

XX OS Synthetic.

XX Sequence 251 BP; 72 A; 51 C; 76 G; 52 T; 0 other;

Query Match 79.3%; score 149; DB 24; Length 251;

Best Local Similarity 100.0%; Pred. No. 1e-62; Matches 149; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Matches 149; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 27 CGATTCGTCGATTCGGTGCAGCATTTAACGGTTGACAACTTAAAGAGAAA 86

Db 97 CGATTCGTCGATTCGGTGCAGCATTTAACGGTTGACAACTTAAAGAGAAA 155

Oy 87 GAAGGTGAGAGAAAGGTGTAGTAGATAAGTACAGACCGGAGAAGTACGCCG 146

Db 157 GAAGGTGAGAGAAAGGTGTAGTAGATAAGTACAGACCGGAGAAGTACGCCG 216

Oy 147 TCCTGAATCGTTAATTGAAAGAGAAA 175

Db 217 TCCTGAATCGTTAATTGAAAGAGAAA 245

RESULT 5 ABQ76063 ID ABQ76063 standard; DNA: 180 BP.

XX AC ABQ76063; ID ABQ76063 standard; DNA: 180 BP.

XX DT 30-SEP-2002 (first entry)

XX DE Clone SC196 containing IRESCP DNA sequence.

XX KW IRES; internal ribosome entry site; viral protein; bicistronic; virus infection; coat protein; protein replacement therapy; crop;

KW nutritional value; seed oil content; ds.
 XX
 OS Synthetic.
 XX

PN WO200255719-A2.
 XX
 PD 18-JUL-2002.

XX PR 09-JAN-2002; 2002WO-US01123.

XX PT 09-JAN-2001; 2001US-0758962.

XX PA (BIOS-) BIOSOURCE GENETICS CORP.
 XX PI Santa-Cruz S, Pogue GP, Toth RL, Chapman S, Carr F;
 XX PR DR WPI; 2002-557829/59.

XX PT New polypeptides contained in plant virus expression vectors, as gene
 XX expression tools, in protein replacement therapy or for intervening in
 XX a metabolic pathway to improve the nutritional value of a crop or alter
 XX the oil content of seeds

PS Claim 4; Fig 4; 33pp; English.

XX X This invention describes a novel isolated polynucleotide comprising an
 CC internal ribosome entry site (IRES) nucleotide sequence, an open reading
 CC frame (ORF1) encoding a peptide and an ORF2 encoding a viral protein,
 CC where the IRES is located between ORF1 and ORF2. The novel
 CC polynucleotides of the invention are used in the construction of a
 CC recombinant potato virus X-based viral vector containing a nucleic acid
 CC construct comprising a bicistronic message with an intervening IRES. The
 CC constructs are used in a method for regulating the rate at which a virus
 CC infection spreads in a host. Regulation is achieved by placing the
 CC nucleic acid construct comprising an internal ribosomes entry site
 CC upstream of a coat protein gene, where the IRES is chosen by the rate of
 CC infection of the viral vector on a host in the presence of that IRES. The
 CC polynucleotide and vectors of the invention are useful for directing
 CC rapid and high-level expression of foreign genes in mature, differentiated,
 CC plant tissue. These are particularly useful in protein
 CC replacement therapy, or for intervening in a metabolic pathway to improve
 CC the nutritional value of a crop or alter the oil content of the seed.
 CC This sequence represents a fragment of the clone SC196 containing an
 CC IRBSCP region described in the method of the invention.

XX Sequence 180 BP; 60 A; 31 C; 52 G; 37 T; 0 other;

XX Query Match 23.4%; Score 44; DB 24; Length 180;
 XX Best Local Similarity 100.0%; Pred. No. 9.3e-12; Mismatches 0; Indels 0; Gaps 0;

XX Matches 44; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

XX QY 90 GTTGAGAAGAGGGTAGTAACTGATAGTATAAGACAGACGG 133
 XX Db 89 GTTGAGAAGAGGGTAGTAACTGATAGTATAAGACAGACGG 132

XX RESULT 6
 XX ABQ76064
 XX ID ABQ76064 standard; DNA; 181 BP.

XX AC ABQ76064;
 XX DT 30-SEP-2002 (first entry)

XX DE Clone SC197 containing IRBSCP DNA sequence.

XX KW IRES; internal ribosome entry site; viral protein; bicistronic;

XX KW virus infection; coat protein; protein replacement therapy; crop;

XX KW nutritional value; seed oil content; ds.

XX OS Synthetic.

XX PN WO200255719-A2.

XX PD 18-JUL-2002.

XX PR 09-JAN-2002; 2002WO-US01123.

XX PT 09-JAN-2001; 2001US-0758962.

XX PA (BIOS-) BIOSOURCE GENETICS CORP.

XX PI Santa-Cruz S, Pogue GP, Toth RL, Chapman S, Carr F;

XX PR DR WPI; 2002-557829/59.

XX PT New polypeptides contained in plant virus expression vectors, as gene
 XX expression tools, in protein replacement therapy or for intervening in
 XX a metabolic pathway to improve the nutritional value of a crop or alter
 XX the oil content of seeds

XX PS Claim 4; Fig 4; 33pp; English.

XX X This invention describes a novel isolated polynucleotide comprising an
 CC internal ribosome entry site (IRES) nucleotide sequence, an open reading
 CC frame (ORF1) encoding a peptide and an ORF2 encoding a viral protein,
 CC where the IRES is located between ORF1 and ORF2. The novel
 CC polynucleotides of the invention are used in the construction of a
 CC recombinant potato virus X-based viral vector containing a nucleic acid
 CC construct comprising a bicistronic message with an intervening IRES. The
 CC constructs are used in a method for regulating the rate at which a virus
 CC infection spreads in a host. Regulation is achieved by placing the
 CC nucleic acid construct comprising an internal ribosomes entry site
 CC upstream of a coat protein gene, where the IRES is chosen by the rate of
 CC infection of the viral vector on a host in the presence of that IRES. The
 CC polynucleotide and vectors of the invention are useful for directing
 CC rapid and high-level expression of foreign genes in mature, differentiated,
 CC plant tissue. These are particularly useful in protein
 CC replacement therapy, or for intervening in a metabolic pathway to improve
 CC the nutritional value of a crop or alter the oil content of the seed.
 CC This sequence represents a fragment of the clone SC197 containing an
 CC IRBSCP region described in the method of the invention.

XX SQ Sequence 181 BP; 61 A; 28 C; 53 G; 39 T; 0 other;

XX Query Match 22.9%; Score 43; DB 24; Length 181;
 XX Best Local Similarity 100.0%; Pred. No. 2.8e-11; Mismatches 0; Indels 0; Gaps 0;

XX Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

XX QY 1 GTCGAGGGTAGCGATAGCTGATATCGAATTCGTGATTCGG 43
 XX Db 1 GTCGAGGGTAGCGATAGCTGATATCGAATTCGTGATTCGG 43

XX RESULT 7
 XX ABQ76061
 XX ID ABQ76061 standard; DNA; 122 BP.

XX AC ABQ76061;
 XX DT 30-SEP-2002 (first entry)

XX DE Clone TXS GFP-IRESmp-CP containing IRES DNA sequence.

XX KW IRES; internal ribosome entry site; viral protein; bicistronic;
 XX KW virus infection; coat protein; protein replacement therapy; crop;

XX KW nutritional value; seed oil content; ds.

XX OS Synthetic.

XX PN WO200255719-A2.

XX PD 18-JUL-2002.

XX PR 09-JAN-2002; 2002WO-US01123.

PR	XX	PA	XX
	(BIOS-)	BIOSOURCE GENETICS CORP.	(MILL-)
PA	XX	PT	XX
PI	Santa-Cruz S,	Pogue GP,	Schlegel R,
XX	Toth RL,	Chapman S,	Endege WO,
DR	Carr F;	Monahan JE;	
WPI:	2002-557829/59.	WPI:	2001-662795/76.
PS	Claim 4; Fig 3; 33pp; English.	PS	Claim 1; Page 7497-7498; 11/50pp; English.
XX	This invention describes a novel isolated polynucleotide comprising an internal ribosome entry site (IRES) nucleotide sequence, an open reading frame (ORF1) encoding a peptide and an ORF2 encoding a viral protein, where the IRES is located between ORF1 and ORF2. The novel polynucleotides of the invention are used in the construction of a recombinant potato virus X-based viral vector containing a nucleic acid construct comprising a bicistrionic message with an intervening IRES. The constructs are used in a method for regulating the rate at which a virus infection spreads in a host. Regulation is achieved by placing the nucleic acid construct comprising an internal ribosomes entry site upstream of a coat protein gene, where the IRES is chosen by the rate of infection of the viral vector on a host in the presence of that IRES. The polynucleotide and vectors of the invention are useful for directing rapid and high-level expression of foreign genes in mature, differentiated, plant tissue. These are particularly useful in protein replacement therapy, or for intervening in a metabolic pathway to improve the nutritional value of a crop or alter the oil content of the seed. This sequence represents a fragment of the clone Txs GFP-IRESmp-CP containing an IRES region described in the method of the invention.	XX	The invention relates to an isolated nucleic acid molecule (I) comprising a nucleotide sequence given in Tables 1-9 (ABV00010-ABV62213) of the specification or its complement. (I) is useful for:
CC	(a) assessing whether a patient is afflicted with prostate cancer;	CC	(a) assessing whether a patient is afflicted with prostate cancer;
CC	(b) monitoring the progression of prostate cancer in a patient;	CC	(b) monitoring the progression of prostate cancer in a patient;
CC	(c) assessing the efficacy of a test compound to inhibit prostate cancer in a patient;	CC	(c) assessing the efficacy of a test compound to inhibit prostate
CC	(d) assessing the efficacy of a therapy for inhibiting prostate cancer in a patient;	CC	(d) assessing the efficacy of a therapy for inhibiting prostate cancer in a patient;
CC	(e) selecting a composition for inhibiting prostate cancer in a patient;	CC	(e) selecting a composition for inhibiting prostate cancer in a patient;
CC	(f) assessing the prostate cell carcinogenic potential of a compound;	CC	(f) assessing the prostate cell carcinogenic potential of a compound;
CC	(g) determining whether prostate cancer has metastasized in a patient;	CC	(g) determining whether prostate cancer has metastasized in a patient;
CC	(h) assessing the aggressiveness or indolence of prostate cancer in a patient;	CC	(h) assessing the aggressiveness or indolence of prostate cancer in a patient;
CC	(I) is also useful as a pharmacodynamic or pharmacogenomic marker.	CC	(I) is also useful as a pharmacodynamic or pharmacogenomic marker.
XX	Sequence 122 BP; 30 A; 14 C; 28 G; 50 T; 0 other;	XX	Sequence 444 BP; 91 A; 124 C; 113 G; 116 T; 0 other;
SO	Query Match 18.6%; Score 35; DB 24; Length 122; Best Local Similarity 100.0%; Pred. No. 2.e-07; Matches 35; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	SO	Query Match 18.6%; Score 35; DB 23; Length 444; Best Local Similarity 100.0%; Pred. No. 2e-07; Matches 35; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Oy	1 GTCGACGGTATCGATAAGCTTGATATCGATCGT 35	Oy	1 GTCGACGGTATCGATAAGCTTGATATCGATCGATTGT 35
Db	1 GTCGACGGTATCGATAAGCTTGATATCGATTCGT 35	Db	1 GTCGACGGTATCGATAAGCTTGATATCGATTCGT 35
RESULT 8	ABV3622/C	RESULT 9	ABV45268/C
ID	ABV3622 standard; cDNA; 444 BP.	ID	ABV45268 standard; cDNA; 444 BP.
XX	AC	XX	AC
XX	ABV3622;	XX	ABV45268;
XX	DT	XX	DT
16-SEP-2002	(first entry)	16-SEP-2002	(first entry)
DE	Human prostate expression marker cDNA 36213.	DE	Human prostate expression marker cDNA 45259.
XX	KW	XX	KW
Human; prostate cancer; cytostatic; carcinogen; pharmacodynamic marker; pharmacogenomic marker; gene; ss.	Human; prostate cancer; cytostatic; carcinogen; pharmacodynamic marker; pharmacogenomic marker; gene; ss.	XX	Human; prostate cancer; cytostatic; carcinogen; pharmacodynamic marker; pharmacogenomic marker; gene; ss.
XX	OS	OS	OS
Homo sapiens.	Homo sapiens.	XX	Homo sapiens.
XX	PN	XX	PN
W020160860-A2.	W020160860-A2.	XX	W020160860-A2.
XX	PD	XX	PD
23-AUG-2001.	23-AUG-2001.	XX	23-AUG-2001.
XX	PF	XX	PF
20-FEB-2001; 2001WO-US05171.	20-FEB-2001; 2001WO-US05171.	XX	20-FEB-2001; 2001WO-US05171.
XX	PR	XX	PR
17-FEB-2000; 2000US-183319P.	17-FEB-2000; 2000US-183319P.	XX	17-FEB-2000; 2000US-183319P.
PR	16-MAR-2000; 2000US-189862P.	PR	16-MAR-2000; 2000US-189862P.
PR	25-MAY-2000; 2000US-207454P.	PR	25-MAY-2000; 2000US-207454P.
PR	09-JUN-2000; 2000US-211314P.	PR	09-JUN-2000; 2000US-211314P.
PR	18-JUL-2000; 2000US-219007P.	PR	18-JUL-2000; 2000US-219007P.
PR	13-DEC-2000; 2000US-255281P.	PR	13-DEC-2000; 2000US-255281P.
PR	WPI; 2001-662795/76.	PR	WPI; 2001-662795/76.

XX Novel isolated nucleic acid molecule associated with cancerous state of
 PT prostate cells and correlating with presence of prostate cancer; useful
 PT for detecting presence of prostate cancer, stage of prostate cancer
 XX
 PS Claim 1; Page 8960; 11750PP; English.

XX The invention relates to an isolated nucleic acid molecule (I) comprising
 CC a nucleotide sequence given in Tables 1-9 (ABV0010-ABV62213) of the
 CC specification or its complement. (I) is useful for:
 CC (a) assessing whether a patient is afflicted with prostate cancer;
 CC (b) monitoring the progression of prostate cancer in a patient;
 CC (c) assessing the efficacy of a test compound to inhibit prostate
 CC cancer in a patient;
 CC (d) assessing the efficacy of a therapy for inhibiting prostate cancer
 CC in a patient;
 CC (e) selecting a composition for inhibiting prostate cancer
 CC (f) assessing the prostate cell carcinogenic potential of a compound;
 CC (g) determining whether prostate cancer has metastasized in a patient;
 CC (h) assessing the aggressiveness or indolence of prostate cancer in a
 CC patient;
 CC (I) is also useful as a pharmacodynamic or pharmacogenomic marker.
 XX Sequence 444 BP; 91 A; 124 C; 113 G; 116 T; 0 other;

Query Match 18.6%; Score 35; DB 23; Length 444;
 Best Local Similarity 100.0%; Pred. No. 2e-07; 0; Mismatches 0; Indels 0; Gaps 0;
 Matches 35; Conservative 0;

Qy 1 GTCCACGGTATCGATAAGCTTGATATCGATATTG 35
 Db 268 GTCGACGGTATCGATAAGCTTGATATCGATATTG 234

RESULT 10
 ID ABV49873/c

ID ABV49873 standard; cDNA; 514 BP.

ID ABV49873;

ID 17-SEP-2002 (first entry)

ID Human prostate expression marker cDNA 49864.

ID Human; prostate cancer; cyostatic; carcinogen; pharmacodynamic marker;

ID pharmacogenomic marker; gene; ss.

ID Homo sapiens.

ID WO200160860-A2.

ID 23-AUG-2001.

ID 20-FEB-2001; 2001WO-US05171.

ID 17-FEB-2000; 2000US-183319P.

ID 16-MAR-2000; 2000US-189862P.

ID 25-MAY-2000; 2000US-207454P.

ID 09-JUN-2000; 2000US-211314P.

ID 18-JUL-2000; 2000US-219007P.

ID 13-DEC-2000; 2000US-355281P.

ID (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.

ID Schlegel R, Endge WO, Monahan JE;

ID WPI; 2001-662795/76.

XX Novel isolated nucleic acid molecule associated with cancerous state of
 PT prostate cells and correlating with presence of prostate cancer, useful
 PT for detecting presence of prostate cancer, stage of prostate cancer
 XX
 PS Claim 1; Page 9722-9723; 11750PP; English.

XX The invention relates to an isolated nucleic acid molecule (I) comprising
 CC a nucleotide sequence given in Tables 1-9 (ABV0010-ABV62213) of the
 CC specification or its complement. (I) is useful for:
 CC (a) assessing whether a patient is afflicted with prostate cancer;
 CC (b) monitoring the progression of prostate cancer in a patient;
 CC (c) assessing the efficacy of a test compound to inhibit prostate
 CC cancer in a patient;
 CC (d) assessing the efficacy of a therapy for inhibiting prostate cancer
 CC in a patient;
 CC (e) selecting a composition for inhibiting prostate cancer in a patient;
 CC (f) assessing the prostate cell carcinogenic potential of a compound;
 CC (g) determining whether prostate cancer has metastasized in a patient;
 CC (h) assessing the aggressiveness or indolence of prostate cancer in a
 CC patient;
 CC (I) is also useful as a pharmacodynamic or pharmacogenomic marker.
 XX Sequence 514 BP; 108 A; 123 C; 125 G; 158 T; 0 other;

Query Match 18.6%; Score 35; DB 23; Length 514;
 Best Local Similarity 100.0%; Pred. No. 2e-07; 0; Mismatches 0; Indels 0; Gaps 0;
 Matches 35; Conservative 0;

Qy 1 GTGACGGTATCGATAACTTGATATCGATATTG 35
 Db 347 GTCGACGGTATCGATAACTTGATATCGATATTG 313

RESULT 11
 ID ABRS2453

ID ABRS2453 standard; cDNA; 1353 BP.

ID ABRS2453;

ID 27-AUG-2002 (first entry)

ID Accessory factor TIP30-32.12 cDNA.

ID Accessory factor TIP30-32.12; regulator protein; HIV-1 Tat; immunopathy;

ID cancer; human immunodeficiency virus; gene; ss.

ID OS Unidentified.

ID Location/Qualifiers
 FH 124..1002

FT /*tag= a
 FT /product= "Accessory factor TIP30-32.12"

FT CN1331116-A.

FT PD 16-JAN-2002.

FT PF 30-JUN-2000; 2000CN-0116960.

FT PR 30-JUN-2000; 2000CN-0116960.

XX PA (BODE-) BODE GENE DEV CO LTD SHANGHAI.

XX PI Mao Y, Xie Y;

XX DR WPI; 2002-316398/36.

XX P-FSDB; AA079300.

XX Accessory factor TIP30-32.12 polypeptide for mutual action of regulator

PT proteins HIV-1 Tat and Polynucleotide encoding it, for treating e.g.

PT cancer and immunopathy

XX Claim 6; Page 27-28 (Disclosure); 35pp; Chinese.

XX The invention relates to the accessory factor TIP30-32.12 polypeptide for
 CC mutual action of regulator proteins HIV-1 Tat, and its associated
 CC polynucleotide. The polynucleotide, polypeptide and its antagonist are
 CC useful for treating cancer and immunopathy. This sequence represents cDNA

CC encoding the accessory factor TIP30-32.12.
 XX
 SQ Sequence 1353 BP; 412 A; 329 C; 294 G; 318 T; 0 other;
 Query Match 18.6%; Score 35; DB 24; Length 1353;
 Best Local Similarity 100.0%; Pred. No. 1.9e-07;
 Matches 35; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GTCGACGGTATCGATAAGCTGATATCGAATTCGT 35
 DB 4 GTCGACGGTATCGATAAGCTGATATCGAATTCGT 38
RESULT 12
 ID AAV41999 standard; DNA; 2126 BP.
 XX AAV41999;
 AC AAV41999;
 XX 20-NOV-1998 (first entry)
 DE Human GPR14 (G-protein coupled receptor polypeptide) gene.
 XX
 KW G-protein coupled receptor polypeptide; GPR14; human; fungal infection;
 KW bacterial infection; protozoan infection; viral infection; agonist;
 KW antagonist; ss.
 OS Homo sapiens.
 XX
 FH Location/Qualifiers
 FT 694..1863
 FT /*tag_a
 FT /product= "human GPR14"
 XX
 Key
 FT CDS
 PR 09-FEB-1998;
 PR 10-APR-1998;
 PR 27-JAN-1999;
 PR 15-JAN-1999;
 PR 09-FEB-1998;
 PR 98US-0058725.
 XX
 PA (SMK) SMITHKLINE BEECHAM CORP.
 PA (SMK) SMITHKLINE BEECHAM LAB PHARM.
 PA (SMK) SMITHKLINE BEECHAM PLC.
 XX
 PI Alyar NY, Al-Barazani K, Ames RS, Arnold AR, Bergsma DJ;
 PI Chambers J, Douglas SA, Foley JJ, Gout B, Khandoudi N;
 PI Sarau HM, Shabon U, Willette RN;
 XX
 DR WPI: 1999-52730544.
 DR P-PSDB; AAV32920.
 XX
 PT Human G protein-coupled receptor GPR14, useful for identifying
 PT agonists and antagonists
 XX
 PS Claim 4; Fig 1; 64pp; English.
 XX
 CC This sequence encodes the human G protein-coupled receptor, GPR14, of the
 PT invention. Human GPR14, polypeptide and polynucleotides are useful in
 XX methods for treatment of, e.g., ischemic coronary artery disease,
 CC atherosclerosis, metabolic diseases, CHF/myocardial dysfunction,
 CC arrhythmias, restenosis, hypertension and hypotension, pulmonary disease,
 CC fibrotic vasculopathies, cerebrovascular events, neurogenic inflammation/migraine, haematopoietic disorders, adult respiratory
 CC distress syndrome (ARDS), cancer, autoimmune diseases, etc. The methods
 CC can be used to identify agonists and antagonists of human and rat GPR14.
 XX
 SQ Sequence 2126 BP; 317 A; 763 C; 669 G; 377 T; 0 other;
 Query Match 18.6%; Score 35; DB 20; Length 2126;
 Best Local Similarity 100.0%; Pred. No. 1.8e-07;
 Matches 35; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GTCGACGGTATCGATAAGCTGATATCGAATTCGT 35
 DB 30 GTCGACGGTATCGATAAGCTGATATCGAATTCGT 64
RESULT 14
 ID AAK99298 standard; CDNA; 3236 BP.

XX
 AC AAK99298;
 XX
 DR 11-JUN-2002 (first entry)
 XX
 DE CDNA of the human cancer suppressor gene 98.
 XX
 KW Cytostatic; anti-HIV; human; cancer suppressor gene 98; antagonist;
 XX DNA recombination; cancer; HIV infection; gene; ss.
 XX
 OS Homo sapiens.
 XX
 FH Location/Qualifiers
 FT 76..2760
 CDS /*tag= a
 FT /product= "Protein of human cancer suppressor gene 98"
 XX
 PN CN1328030-A.
 XX
 PD 26-DEC-2001.
 XX
 PF 12-JUN-2000; 2000CN-0116437.
 XX
 PR 12-JUN-2000; 2000CN-0116437.
 XX
 PA (BODE-) BODE GENE DEV CO LTD SHANGHAI.
 XX
 PI Mao Y, Xie Y;
 XX
 DR WPI; 2002-292849/34.
 DR P-PSDB; ABB81091.
 XX
 PT Polypeptide-human x2 theca repressor 10.34 and polynucleotide for
 PT coding it -
 XX
 PS Claim 6; Page 25-27; 34pp; Chinese.
 XX
 CC The sequence encodes the novel human x2 theca repressor 10.34 polypeptide
 CC of the invention. The polypeptide is useful for treating diseases such as
 CC immunopathy. The antagonist of the polypeptide and its medical action,
 CC and the application of the polynucleotide are also disclosed.
 XX
 SQ Sequence 3905 BP; 1245 A; 731 C; 701 G; 1228 T; 0 other;
 Query Match 18.6%; Score 35; DB 24; Length 3905;
 Best Local Similarity 100.0%; Pred. No. 1.0e-07;
 Matches 35; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 PT
 PT Polypeptide-human cancer suppressor gene 98, useful for treating
 PT diseases such as cancer and HIV infection.
 XX
 PS Claim 6; Page 25-27 disclosure; 37pp; Chinese.
 XX
 CC The invention relates to a novel protein of the human cancer suppressor
 CC gene 98, the encoding polynucleotide, a process for preparing the
 CC polynucleotide by DNA recombination, and an antagonist to the
 CC polynucleotide. The protein is useful for treating diseases such as
 CC cancer, HIV infection, etc. This polynucleotide sequence represents the
 CC DNA of the human cancer suppressor gene 98 of the Invention.
 XX
 SQ Sequence 3236 BP; 892 A; 638 C; 745 G; 961 T; 0 other;
 Query Match 18.6%; Score 35; DB 24; Length 3236;
 Best Local Similarity 100.0%; Pred. No. 1.0e-07;
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 Db 31 GTGGACGGTATCGATAACCTGTATCGATGCT 65
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 RESULT 15
 ABN83030
 ID ABN83030 standard; cDNA; 3905 BP.
 XX
 AC ABN83030;
 XX
 DT 14-AUG-2002 (first entry)
 XX
 DE Human X2 theca repressor 10.34 cDNA.
 XX
 KW Human; x2 theca repressor 10.34; repressor; immunopathy; gene; ss.
 XX
 OS Homo sapiens.
 XX
 FH Location/Qualifiers
 FT 3574..3858
 CDS /*tag= a
 FT /product= "X2 theca repressor 10.34"

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Om nucleic - nucleic search, using sw model
Run on: February 19, 2003, 07:08:12 ; Search time 45 Seconds
(Without alignments)
1281.227 Million cell updates/sec

Title: US-09-758-962-1
Perfect score: 188
Sequence: 1.gtcgacggatcgataagct.....gaagaagagtcaccatgg 188

Scoring table: OLIGO-NUC
Gapop 60.0 , Gapext 60.0

Searched: 441362 seqs, 153330381 residues

Word size : 0

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Listing first 45 summaries

Database :

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Issued_Patents_NA: *
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6: /cgn2_6/ptodata/2/ina/backfiles1.seq; *
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
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3	35	18.6	2126	3 US-09-475B-1
4	35	18.6	2126	3 US-09-2126-857-1
5	35	18.6	7560	4 US-09-103-471-4
6	35	18.6	7560	4 US-09-931C-4
7	34	18.1	924	3 US-09-933-409-3
8	34	18.1	1270	5 PC-US93-10403-1
9	34	18.1	1270	3 US-09-215-221-3
10	34	18.1	1471	4 US-09-492-985-11
11	34	18.1	1638	2 US-08-838-219B-8
12	34	18.1	1638	3 US-09-213-316A-8
13	34	18.1	1638	3 US-09-233-752A-8
14	34	18.1	1638	4 US-09-402-036-8
15	34	18.1	1638	4 US-09-947-948A-3
16	34	18.1	1679	3 US-08-676-883-1
17	34	18.1	1703	5 PCT-US93-10403-3
18	34	18.1	1958	4 US-09-215-221-9
19	34	18.1	2031	4 US-09-149-476-155
20	34	18.1	2185	4 US-08-467-948A-3
21	34	18.1	2185	3 US-08-904-236-8
22	34	18.1	2200	1 US-08-272-255-21
23	34	18.1	2200	5 PCT-US93-08505-21
24	34	18.1	2605	5 PCT-US93-08505-21
25	34	18.1	3344	1 US-07-118-575-13
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27	34	18.1	3344	2 US-08-486-269A-13

ALIGNMENTS

RESULT 1
US-09-758-962-1
Sequence 1, Application US/08789354
Patient No. 5851798

GENERAL INFORMATION:

APPLICANT: Shabot, Usman
APPLICANT: Bergsma, Derk
TITLE OF INVENTION: Cloning of Human GPR14 Receptor
TITLE OF INVENTION: Ceptor
NUMBER OF SEQUENCES: 2

CORRESPONDENCE ADDRESS:
ADDRESSEE: SmithKline Beecham Corporation
STREET: 709 Swedeland Road
CITY: King of Prussia
STATE: PA
COUNTRY: USA
ZIP: 19406

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPILER: IBM Compatible
OPERATING SYSTEM: DOS

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08789354
FILING DATE: 27-JAN-1997
CLASSIFICATION: 435
PRIORITY APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Han, William T
REGISTRATION NUMBER: 34,344
REFERENCE/DOCKET NUMBER: P50610
TELECOMMUNICATION INFORMATION:
TELEPHONE: 610-270-5219
TELEX: 610-270-4026

TELEX:

INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 2126 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
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SEQUENCE 815, Appl
SEQUENCE 816, Appl
SEQUENCE 817, Appl
SEQUENCE 818, Appl
SEQUENCE 819, Appl
SEQUENCE 820, Appl
SEQUENCE 821, Appl
SEQUENCE 822, Appl
SEQUENCE 823, Appl
SEQUENCE 824, Appl
SEQUENCE 825, Appl
SEQUENCE 826, Appl
SEQUENCE 827, Appl
SEQUENCE 828, Appl
SEQUENCE 829, Appl
SEQUENCE 830, Appl
SEQUENCE 831, Appl
SEQUENCE 832, Appl
SEQUENCE 833, Appl
SEQUENCE 834, Appl
SEQUENCE 835, Appl
SEQUENCE 836, Appl
SEQUENCE 837, Appl
SEQUENCE 838, Appl
SEQUENCE 839, Appl
SEQUENCE 840, Appl
SEQUENCE 841, Appl
SEQUENCE 842, Appl
SEQUENCE 843, Appl
SEQUENCE 844, Appl
SEQUENCE 845, Appl
SEQUENCE 846, Appl
SEQUENCE 847, Appl
SEQUENCE 848, Appl
SEQUENCE 849, Appl
SEQUENCE 850, Appl
SEQUENCE 851, Appl
SEQUENCE 852, Appl
SEQUENCE 853, Appl
SEQUENCE 854, Appl
SEQUENCE 855, Appl
SEQUENCE 856, Appl
SEQUENCE 857, Appl
SEQUENCE 858, Appl
SEQUENCE 859, Appl
SEQUENCE 860, Appl
SEQUENCE 861, Appl
SEQUENCE 862, Appl
SEQUENCE 863, Appl
SEQUENCE 864, Appl
SEQUENCE 865, Appl
SEQUENCE 866, Appl
SEQUENCE 867, Appl
SEQUENCE 868, Appl
SEQUENCE 869, Appl
SEQUENCE 870, Appl
SEQUENCE 871, Appl
SEQUENCE 872, Appl
SEQUENCE 873, Appl
SEQUENCE 874, Appl
SEQUENCE 875, Appl
SEQUENCE 876, Appl
SEQUENCE 877, Appl
SEQUENCE 878, Appl
SEQUENCE 8

QY 1 GTCGACGGTATCGATAAGCTTGATATCGAATTGT 35
 |||||||
 Db 30 GTCGACGGTATCGATAAGCTTGATATCGAATTGT 64

RESULT 2
 US-09-110-937-1
 ; Sequence 1, Application US/09110937A
 ; Patent No. 6005074
 ; GENERAL INFORMATION:
 ; APPLICANT: SHABON, USMAN
 ; TITLE OF INVENTION: CLONING OF HUMAN GPR14 RECEPTOR
 ; FILE REFERENCE: P50610-1
 ; CURRENT APPLICATION NUMBER: US/09/110,937A
 ; CURRENT FILING DATE: 1998-07-06
 ; NUMBER OF SEQ ID NOS: 2
 ; SOFTWARE: FastSEQ for Windows Version 3.0
 ; SEQ ID NO: 1
 ; LENGTH: 2126
 ; TYPE: DNA
 ; ORGANISM: HOMO SAPIENS
 ; US-09-110-937-1

RESULT 3
 US-09-058-725B-1
 Query Match 18.6%; Score 35; DB 3; Length 2126;
 Best Local Similarity 100.0%; Pred. No. 2e-08; 0; Mismatches 0;
 Matches 35; Conservative 0; Indels 0; Gaps 0;
 Qy 1 GTCGACGGTATCGATAAGCTTGATATCGAATTGT 35
 Db 30 GTCGACGGTATCGATAAGCTTGATATCGAATTGT 64

RESULT 4
 US-09-232-857-1
 Sequence 1, Application US/09232857
 ; Patent No. 6159700
 ; GENERAL INFORMATION:
 ; APPLICANT: DOUGLAS, STEPHEN
 ; APPLICANT: WILLETT, ROBERT
 ; APPLICANT: AYYAR, NAMBI
 ; APPLICANT: ROMANIC, ANNE
 ; APPLICANT: KHANDOURI, NASSIRAH
 ; APPLICANT: GOOT, BERNARD
 ; APPLICANT: AL-BARZANJI, KAMAL
 ; APPLICANT: FOLEY, JAMES S.
 ; APPLICANT: SARAU, HENRY
 ; APPLICANT: CHAMBERS, JON K.
 ; APPLICANT: SHABON, USMAN
 ; APPLICANT: BERGSMAN, DERK
 ; TITLE OF INVENTION: A METHOD OF FINDING AGONIST
 ; TITLE OF INVENTION: AND ANTAGONIST TO HUMAN AND RAT GPR14
 ; NUMBER OF SEQUENCES: 6
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Smithkline Beecham Corporation
 ; STREET: 709 Swedeland Road
 ; CITY: King of Prussia
 ; STATE: PA
 ; COUNTRY: USA
 ; ZIP: 19406

COMPUTER READABLE FORM:
 COMPUTER: IBM Compatible
 OPERATING SYSTEM: DOS
 SOFTWARE: FastSEQ for Windows Version 2.0

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/058,725B
 FILING DATE: April 10, 1998
 CLASSIFICATION: 435
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: 08/789,354
 FILING DATE: 27-JAN-1997
 ATTORNEY/AGENT INFORMATION:
 NAME: Han, William T.
 REGISTRATION NUMBER: 34,344
 REFERENCE/DOCKET NUMBER: GP-50005-1
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 610-270-5219
 TELEX: 610-270-5090
 TELE:
 INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:
 LENGTH: 2126 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 ; MOLECULE TYPE: cDNA
 ; US-09-058-725B-1

RESULT 4
 US-09-232-857-1
 Query Match 18.6%; Score 35; DB 3; Length 2126;
 Best Local Similarity 100.0%; Pred. No. 2e-08; 0; Mismatches 0;
 Matches 35; Conservative 0; Indels 0; Gaps 0;
 Qy 1 GTCGACGGTATCGATAAGCTTGATATCGAATTGT 35
 Db 30 GTCGACGGTATCGATAAGCTTGATATCGAATTGT 64

RESULT 4
 US-09-232-857-1
 Sequence 1, Application US/09232857
 ; Patent No. 6159700
 ; GENERAL INFORMATION:
 ; APPLICANT: DOUGLAS, STEPHEN
 ; APPLICANT: WILLETT, ROBERT
 ; APPLICANT: AYYAR, NAMBI
 ; APPLICANT: ROMANIC, ANNE
 ; APPLICANT: KHANDOURI, NASSIRAH
 ; APPLICANT: GOOT, BERNARD
 ; APPLICANT: AL-BARZANJI, KAMAL
 ; APPLICANT: FOLEY, JAMES S.
 ; APPLICANT: SARAU, HENRY
 ; APPLICANT: CHAMBERS, JON K.
 ; APPLICANT: SHABON, USMAN
 ; APPLICANT: BERGSMAN, DERK
 ; TITLE OF INVENTION: A METHOD OF FINDING AGONIST
 ; TITLE OF INVENTION: AND ANTAGONIST TO HUMAN AND RAT GPR14
 ; NUMBER OF SEQUENCES: 6
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Ratner & Prestia
 ; STREET: P.O. Box 980
 ; CITY: Valley Forge
 ; STATE: PA
 ; COUNTRY: USA
 ; ZIP: 19482

COMPUTER READABLE FORM:
 COMPUTER: IBM Compatible
 OPERATING SYSTEM: DOS
 SOFTWARE: FastSEQ for Windows Version 2.0

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/232-857
 FILING DATE: 15-JAN-1998
 CLASSIFICATION:
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: 08/789,354
 FILING DATE: 27-JAN-1997
 APPLICATION NUMBER: 60/074,075
 FILING DATE: 09-FEB-1998
 APPLICATION NUMBER: 09/058,725
 FILING DATE: 10-APR-1998
 ATTORNEY/AGENT INFORMATION:
 NAME: Prestia, Paul F.
 REGISTRATION NUMBER: 23,031
 REFERENCE/DOCKET NUMBER: GP-50005-2
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 610-407-0700
 TELEX: 846169
 INFORMATION FOR SEQ ID NO: 1:
 LENGTH: 2126 base pairs
 TYPE: nucleic acid

STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
US-09-232-857-1

Query Match 18.6%; Score 35; DB 3; Length 2126;
Best Local Similarity 100.0%; Pred. No. 2e-08; Matches 35; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTCGACGGTATCGATAAGCTGATATCGAATTGCT 35
Db 30 GTCGACGGTATCGATAAGCTGATATCGAATTGCT 64

RESULT 5
Sequence 4, Application US/09103478
Patent No. 6235975

GENERAL INFORMATION:
APPLICANT: Harada, John
APPLICANT: Lotan, Tamar
APPLICANT: Lotan, Tamar
APPLICANT: Ohto, Masa-aki
APPLICANT: Goldberg, Robert B.
APPLICANT: Fischer, Robert L.

APPLICANT: Fischer, Robert L.
APPLICANT: The Regents of the University of California
TITLE OF INVENTION: LEAFY COYLEDON1 Genes and Their Uses
FILE REFERENCE: 023070-077620

PRIOR APPLICATION NUMBER: US/09/103,478
PRIOR FILING DATE: 1998-06-24
CURRENT FILING DATE: 1998-11-17
PRIOR APPLICATION NUMBER: US/09/193,931C
PRIOR FILING DATE: 1998-02-19
NUMBER OF SEQ ID NOS: 29
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 4
LENGTH: 7560
TYPE: DNA
ORGANISM: Arabidopsis thaliana
FEATURE: OTHER INFORMATION: 7.4 kb genomic wild-type fragment containing LEC1
OTHER INFORMATION: gene
NAME/KEY: misc-feature
LOCATION: (2430)..(2824)

OTHER INFORMATION: corresponds to SEQ ID NO:3
NAME/KEY: Promoter
LOCATION: (2430)..(427)
OTHER INFORMATION: corresponds to SEQ ID NO:3
NAME/KEY: CDS
LOCATION: (4427)..(5054)

OTHER INFORMATION: LEAFY COYLEDON1 (LECI)
NAME/KEY: modified_base
LOCATION: (1)..(7560)
OTHER INFORMATION: n = g, a, c or t
US-09-193-931C-4

Query Match 18.6%; Score 35; DB 4; Length 7560;
Best Local Similarity 100.0%; Pred. No. 1.8e-08; Matches 35; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTCGACGGTATCGATAAGCTGATATCGAATTGCT 35
Db 53 GTCGACGGTATCGATAAGCTGATATCGAATTGCT 87

RESULT 6
Sequence 4, Application US/09193931C
Patent No. 6350102

GENERAL INFORMATION:
APPLICANT: Harada, John
APPLICANT: Lotan, Tamar
APPLICANT: Ohto, Masa-aki
APPLICANT: Goldberg, Robert B.
APPLICANT: Fischer, Robert L.

APPLICANT: Fischer, Robert L.
TITLE OF INVENTION: LEAFY COYLEDON1 Genes and Their Uses
FILE REFERENCE: 023070-077620

PRIOR APPLICATION NUMBER: US/09/026,221
PRIOR FILING DATE: 1998-02-19
CURRENT FILING DATE: 1997-02-21
PRIOR APPLICATION NUMBER: US 08/804,534
PRIOR FILING DATE: 1997-02-21
NUMBER OF SEQ ID NOS: 29
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 4
LENGTH: 7560
TYPE: DNA
ORGANISM: Arabidopsis thaliana
FEATURE: OTHER INFORMATION: corresponds to LEC1 promoter in SEQ ID NO:3
OTHER INFORMATION: gene
NAME/KEY: misc-feature
LOCATION: (2430)..(2824)

OTHER INFORMATION: corresponds to SEQ ID NO:3
NAME/KEY: Promoter
LOCATION: (2430)..(427)
OTHER INFORMATION: corresponds to SEQ ID NO:3
NAME/KEY: CDS
LOCATION: (4427)..(5054)

OTHER INFORMATION: LEAFY COYLEDON1 (LECI)
NAME/KEY: modified_base
LOCATION: (1)..(7560)
OTHER INFORMATION: n = g, a, c or t
US-09-193-931C-4

Query Match 18.6%; Score 35; DB 4; Length 7560;
Best Local Similarity 100.0%; Pred. No. 1.8e-08; Matches 35; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTCGACGGTATCGATAAGCTGATATCGAATTGCT 35
Db 53 GTCGACGGTATCGATAAGCTGATATCGAATTGCT 87

RESULT 7
Sequence 3, Application US/08983409
Patent No. 6150586

GENERAL INFORMATION:
APPLICANT: Slabas, Antoni
APPLICANT: Elborough, Kieran
TITLE OF INVENTION: Plant Gene Encoding Acetyl Coenzyme A
TITLE OF INVENTION: Carboxylase Biotin Carboxyl Carrier Protein
NUMBER OF SEQ ID NOS: 6

CORRESPONDENCE ADDRESS:
ADDRESSEE: Zeneca Inc.
STREET: 1800 Concord Pike
CITY: Wilmington
STATE: DE
COUNTRY: USA
ZIP: 19850

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible

Query Match 18.6%; Score 35; DB 4; Length 7560;
Best Local Similarity 100.0%; Pred. No. 1.8e-08; Matches 35; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GTCGACGGTATCGATAAGCTGATATCGAATTGCT 35
Db 53 GTCGACGGTATCGATAAGCTGATATCGAATTGCT 87

US-09-103-478-4

OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent in Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/983,409

FILING DATE: 20-JAN-1998
 CLASSIFICATION: 800
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: PCT/GB96/01894
 FILING DATE: 06-AUG-1996

APPLICATION NUMBER: GB 9516961.1
 ATTORNEY/AGENT INFORMATION:
 NAME: Hohenischutz, Liza D.
 REGISTRATION NUMBER: 35712
 REFERENCE/DOCKET NUMBER: SEE45001/UST

TELECOMMUNICATION INFORMATION:
 TELEPHONE: (302) 886-1699
 INFORMATION FOR SEQ ID NO: 3:

INFORMATION FOR SEQ ID NO: 3:
 INFORMATION FOR SEQ ID NO: 3:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 924 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 US-08-983-409-3

RESULT 8
 PCR-US95-10403-1

SEQUENCE CHARACTERISTICS:
 Best Local Similarity 100.0%; Pred. No. 6.4e-08;
 Matches 34; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTGAGCGGTATCGATAAGCTGATATCGAATTCG 34
 Db 6 GTCGACGGTATCGATAAGCTGATATCGAATTCG 39

RESULT 9
 PCR-US95-10403-1

SEQUENCE CHARACTERISTICS:
 Best Local Similarity 100.0%; Pred. No. 6.4e-08;
 Matches 34; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTGAGCGGTATCGATAAGCTGATATCGAATTCG 34
 Db 6 GTCGACGGTATCGATAAGCTGATATCGAATTCG 39

INFORMATION FOR SEQ ID NO: 3:
 INFORMATION FOR SEQ ID NO: 3:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 924 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 US-08-983-409-3

TYPE: nucleic acid
 STRANDEDNESS: both
 TOPOLOGY: both
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 107..1183

INFORMATION FOR SEQ ID NO: 3:
 INFORMATION FOR SEQ ID NO: 3:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1270 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 US-09-183-253-3

INFORMATION FOR SEQ ID NO: 3:
 INFORMATION FOR SEQ ID NO: 3:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1270 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: both
 TOPOLOGY: both
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 107..1183

INFORMATION FOR SEQ ID NO: 3:
 INFORMATION FOR SEQ ID NO: 3:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1270 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: both
 TOPOLOGY: both
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 107..1183

INFORMATION FOR SEQ ID NO: 3:
 INFORMATION FOR SEQ ID NO: 3:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1270 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: both
 TOPOLOGY: both
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 107..1183

INFORMATION FOR SEQ ID NO: 3:
 INFORMATION FOR SEQ ID NO: 3:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1270 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: both
 TOPOLOGY: both
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 107..1183

ATTORNEY/AGENT INFORMATION:
 NAME: Cimbalia, Michele A.
 REGISTRATION NUMBER: 33,851
 REFERENCE/DOCKET NUMBER: 0609.408PC00
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (202) 371-600
 TELEX: (202) 371-2540
 INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1270 base pairs

RESULT 10
US-09-92-985-11/c

SEQUENCE 11, Application US/09492985

PATENT NO. 6376240

GENERAL INFORMATION:

APPLICANT: Song, An M.

APPLICANT: Krensky, Alan M.

TITLE OF INVENTION: RFLP-1: A Transcription Factor That

FILE REFERENCE: SUN-113P

CURRENT APPLICATION NUMBER: US/09492,985

EARLIER APPLICATION NUMBER: 60/117,576

EARLIER FILING DATE: 1999-01-27

NUMBER OF SEQ ID NOS: 11

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO: 11

LENGTH: 1471

TYPE: DNA

ORGANISM: mouse

US-09-492-985-11

FILING DATE: 23-MAR-1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/037,057

FILING DATE: 25-MAR-1993

ATTORNEY/AGENT INFORMATION:

NAME: Pace, Gary M.

REGISTRATION NUMBER: 40,403

REFERENCE/DOCKET NUMBER: CGC 1925

TELECOMMUNICATION INFORMATION:

TELEPHONE: 910-541-8582

TELEFAX: 910-541-6689

INFORMATION FOR SEQ ID NO: 8:

SEQUENCE CHARACTERISTICS:

LENGTH: 1638 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: cDNA

HYPOTHETICAL: NO

FEATURE:

NAME/KEY: CDS

LOCATION: 2..1191

OTHER INFORMATION: /product= "translation of cDNA

US-08-838-219B-8

RESULT 11
US-08-838-219B-8/c

SEQUENCE 8, Application US/08838219B

PATENT NO. 5877012

GENERAL INFORMATION:

APPLICANT: Warren, Gregory W

APPLICANT: Koziel, Michael G

APPLICANT: Mullins, Martha A

APPLICANT: Nye, Gordon J

APPLICANT: Carr, Brian

APPLICANT: Desai, Nalini M

APPLICANT: Kosticica, N. Kristy

APPLICANT: Duck, Nicholas B

APPLICANT: Estruch, Juan J

TITLE OF INVENTION: A No. 5877012el Class of Proteins for the

TITLE OF INVENTION: Control of Plant Pests

NUMBER OF SEQUENCES: 20

CORRESPONDENCE ADDRESS:

ADDRESSEE: CIBA-GEIGY Corporation

STREET: 7 Skyline Drive

CITY: Hawthorne

STATE: NJ

COUNTRY: USA

ZIP: 10532

RESULT 12
US-09-233-336A-8/c

SEQUENCE 8, Application US/09233336A

PATENT NO. 6107279

GENERAL INFORMATION:

APPLICANT: Warren, Gregory W

APPLICANT: Koziel, Michael G

APPLICANT: Mullins, Martha A

APPLICANT: Nye, Gordon J

APPLICANT: Carr, Brian

APPLICANT: Desai, Nalini M

APPLICANT: Kosticica, N. Kristy

APPLICANT: Duck, Nicholas B

APPLICANT: Estruch, Juan J

TITLE OF INVENTION: A No. 6107279el Class of Proteins for the

TITLE OF INVENTION: Control of Plant Pests

NUMBER OF SEQUENCES: 20

CORRESPONDENCE ADDRESS:

ADDRESSEE: CIBA-GEIGY Corporation

STREET: 7 Skyline Drive

CITY: Hawthorne

STATE: NJ

COUNTRY: USA

ZIP: 10532

RESULT 13
US-09-233-336A-8/c

SEQUENCE 8, Application US/09233336A

PATENT NO. 6107279

GENERAL INFORMATION:

APPLICANT: Warren, Gregory W

APPLICANT: Koziel, Michael G

APPLICANT: Mullins, Martha A

APPLICANT: Nye, Gordon J

APPLICANT: Carr, Brian

APPLICANT: Desai, Nalini M

APPLICANT: Kosticica, N. Kristy

APPLICANT: Duck, Nicholas B

APPLICANT: Estruch, Juan J

TITLE OF INVENTION: A No. 6107279el Class of Proteins for the

TITLE OF INVENTION: Control of Plant Pests

NUMBER OF SEQUENCES: 20

CORRESPONDENCE ADDRESS:

ADDRESSEE: CIBA-GEIGY Corporation

STREET: 7 Skyline Drive

CITY: Hawthorne

STATE: NJ

COUNTRY: USA

ZIP: 10532

RESULT 14
US-08-838-219B-8/c

SEQUENCE 8, Application US/08838219B

PATENT NO. 5877012

GENERAL INFORMATION:

APPLICANT: Warren, Gregory W

APPLICANT: Koziel, Michael G

APPLICANT: Mullins, Martha A

APPLICANT: Nye, Gordon J

APPLICANT: Carr, Brian

APPLICANT: Desai, Nalini M

APPLICANT: Kosticica, N. Kristy

APPLICANT: Duck, Nicholas B

APPLICANT: Estruch, Juan J

TITLE OF INVENTION: A No. 5877012el Class of Proteins for the

TITLE OF INVENTION: Control of Plant Pests

NUMBER OF SEQUENCES: 20

CORRESPONDENCE ADDRESS:

ADDRESSEE: CIBA-GEIGY Corporation

STREET: 7 Skyline Drive

CITY: Hawthorne

STATE: NJ

COUNTRY: USA

ZIP: 10532

RESULT 15
US-09-233-336A-8/c

SEQUENCE 8, Application US/09233336A

PATENT NO. 6107279

GENERAL INFORMATION:

APPLICANT: Warren, Gregory W

APPLICANT: Koziel, Michael G

APPLICANT: Mullins, Martha A

APPLICANT: Nye, Gordon J

APPLICANT: Carr, Brian

APPLICANT: Desai, Nalini M

APPLICANT: Kosticica, N. Kristy

APPLICANT: Duck, Nicholas B

APPLICANT: Estruch, Juan J

TITLE OF INVENTION: A No. 6107279el Class of Proteins for the

TITLE OF INVENTION: Control of Plant Pests

NUMBER OF SEQUENCES: 20

CORRESPONDENCE ADDRESS:

ADDRESSEE: CIBA-GEIGY Corporation

STREET: 7 Skyline Drive

CITY: Hawthorne

STATE: NJ

COUNTRY: USA

ZIP: 10532

RESULT 16
US-08-838-219B-8/c

SEQUENCE 8, Application US/08838219B

PATENT NO. 5877012

GENERAL INFORMATION:

APPLICANT: Warren, Gregory W

APPLICANT: Koziel, Michael G

APPLICANT: Mullins, Martha A

APPLICANT: Nye, Gordon J

APPLICANT: Carr, Brian

APPLICANT: Desai, Nalini M

APPLICANT: Kosticica, N. Kristy

APPLICANT: Duck, Nicholas B

APPLICANT: Estruch, Juan J

TITLE OF INVENTION: A No. 5877012el Class of Proteins for the

TITLE OF INVENTION: Control of Plant Pests

NUMBER OF SEQUENCES: 20

CORRESPONDENCE ADDRESS:

ADDRESSEE: CIBA-GEIGY Corporation

STREET: 7 Skyline Drive

CITY: Hawthorne

STATE: NJ

COUNTRY: USA

ZIP: 10532

RESULT 17
US-09-233-336A-8/c

SEQUENCE 8, Application US/09233336A

PATENT NO. 6107279

GENERAL INFORMATION:

APPLICANT: Warren, Gregory W

APPLICANT: Koziel, Michael G

APPLICANT: Mullins, Martha A

APPLICANT: Nye, Gordon J

APPLICANT: Carr, Brian

APPLICANT: Desai, Nalini M

APPLICANT: Kosticica, N. Kristy

APPLICANT: Duck, Nicholas B

APPLICANT: Estruch, Juan J

TITLE OF INVENTION: A No. 6107279el Class of Proteins for the

TITLE OF INVENTION: Control of Plant Pests

NUMBER OF SEQUENCES: 20

CORRESPONDENCE ADDRESS:

ADDRESSEE: CIBA-GEIGY Corporation

STREET: 7 Skyline Drive

CITY: Hawthorne

STATE: NJ

COUNTRY: USA

ZIP: 10532

RESULT 18
US-08-838-219B-8/c

SEQUENCE 8, Application US/08838219B

PATENT NO. 5877012

GENERAL INFORMATION:

APPLICANT: Warren, Gregory W

APPLICANT: Koziel, Michael G

APPLICANT: Mullins, Martha A

APPLICANT: Nye, Gordon J

APPLICANT: Carr, Brian

APPLICANT: Desai, Nalini M

APPLICANT: Kosticica, N. Kristy

APPLICANT: Duck, Nicholas B

APPLICANT: Estruch, Juan J

TITLE OF INVENTION: A No. 5877012el Class of Proteins for the

TITLE OF INVENTION: Control of Plant Pests

NUMBER OF SEQUENCES: 20

CORRESPONDENCE ADDRESS:

ADDRESSEE: CIBA-GEIGY Corporation

STREET: 7 Skyline Drive

CITY: Hawthorne

STATE: NJ

COUNTRY: USA

ZIP: 10532

RESULT 19
US-09-233-336A-8/c

SEQUENCE 8, Application US/09233336A

PATENT NO. 6107279

GENERAL INFORMATION:

APPLICANT: Warren, Gregory W

APPLICANT: Koziel, Michael G

APPLICANT: Mullins, Martha A

APPLICANT: Nye, Gordon J

APPLICANT: Carr, Brian

APPLICANT: Desai, Nalini M

APPLICANT: Kosticica, N. Kristy

APPLICANT: Duck, Nicholas B

APPLICANT: Estruch, Juan J

TITLE OF INVENTION: A No. 6107279el Class of Proteins for the

TITLE OF INVENTION: Control of Plant Pests

NUMBER OF SEQUENCES: 20

CORRESPONDENCE ADDRESS:

ADDRESSEE: CIBA-GEIGY Corporation

STREET: 7 Skyline Drive

CITY: Hawthorne

STATE: NJ

COUNTRY: USA

ZIP: 10532

RESULT 20
US-08-838-219B-8/c

SEQUENCE 8, Application US/08838219B

PATENT NO. 5877012

GENERAL INFORMATION:

APPLICANT: Warren, Gregory W

APPLICANT: Koziel, Michael G

APPLICANT: Mullins, Martha A

APPLICANT: Nye, Gordon J

APPLICANT: Carr, Brian

APPLICANT: Desai, Nalini M

APPLICANT: Kosticica, N. Kristy

APPLICANT: Duck, Nicholas B

APPLICANT: Estruch, Juan J

TITLE OF INVENTION: A No. 5877012el Class of Proteins for the

TITLE OF INVENTION: Control of Plant Pests

NUMBER OF SEQUENCES: 20

CORRESPONDENCE ADDRESS:

ADDRESSEE: CIBA-GEIGY Corporation

STREET: 7 Skyline Drive

CITY: Hawthorne

STATE: NJ

COUNTRY: USA

ZIP: 10532

FILING DATE: 09-SEP-1994
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: US 08/218,018
 FILING DATE: 23-MAR-1994
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: US 08/037,057
 FILING DATE: 25-MAR-1993
 ATTORNEY/AGENT INFORMATION:
 NAME: Pace, Gary M.
 REGISTRATION NUMBER: 40,403
 REFERENCE/DOCKET NUMBER: CGC 1925
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 919-541-8582
 TELEFAX: 919-541-8689
 INFORMATION FOR SEQ ID NO: 8:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1638 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHETICAL: NO
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 2..1191
 OTHER INFORMATION: /product= "Translation of cDNA
 US-09-233-356A-8

Query Match 18.1%; Score 34; DB 3; Length 1638;
 Best Local Similarity 100.0%; Pred. No. 6.3e-08; Mismatches 0; Indels 0; Gaps 0;
 Matches 34; Conservative 0; Misnmatches 0;

Qy 1 GTGAGCGGTATCGATAAGCTGTTATCGAATTG 34
 Db 1633 GTGCACGGTATCGATAAGCTGTTATCGAATTG 1600

RESULT 13
 US-09-233-752A-8/c
 Sequence 8, Application US/09233752A
 ; GENERAL INFORMATION:
 ; Patent No. 6137033
 ;
 ; APPLICANT: Warren, Gregory W.
 ; APPLICANT: Kozel, Michael G.
 ; APPLICANT: Mullins, Martha A.
 ; APPLICANT: Nye, Gordon J.
 ; APPLICANT: Carr, Brian
 ; APPLICANT: Desai, Nalini M.
 ; APPLICANT: Kostchka, N. Kristy
 ; APPLICANT: Duck, Nicholas B.
 ; APPLICANT: Estruch, Juan J.
 ;
 ; TITLE OF INVENTION: A NO. 6137033el Class of Proteins for the
 ; NUMBER OF SEQUENCES: 20
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: CIBA-GEIGY Corporation
 ; STREET: 7 Skyline Drive
 ; CITY: Hawthorne
 ; STATE: NY
 ; COUNTRY: USA
 ; ZIP: 10532
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.30B
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/233,752A
 ; FILING DATE:
 ; CLASSIFICATION:
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 08/838,219

FILING DATE: 09-SEP-1994
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: US 08/314,594
 FILING DATE: 09-SEP-1994
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: US 08/218,018
 FILING DATE: 23-MAR-1994
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: US 08/037,057
 FILING DATE: 25-MAR-1993
 ATTORNEY/AGENT INFORMATION:
 NAME: Pace, Gary M.
 REGISTRATION NUMBER: 40,403
 REFERENCE/DOCKET NUMBER: CGC 1925
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 919-541-8689
 INFORMATION FOR SEQ ID NO: 8:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1638 base pairs
 TELEFAX: 919-541-8582
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHETICAL: NO
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 2..1191
 OTHER INFORMATION: /product= "Translation of cDNA
 US-09-233-752A-8

Query Match 18.1%; Score 34; DB 3; Length 1638;
 Best Local Similarity 100.0%; Pred. No. 6.3e-08; Mismatches 0; Indels 0; Gaps 0;
 Matches 34; Conservative 0; Misnmatches 0;

Qy 1 GTGAGCGGTATCGATAAGCTGTTATCGAATTG 34
 Db 1633 GTGCACGGTATCGATAAGCTGTTATCGAATTG 1600

RESULT 14
 US-09-402-036-8/c
 Sequence 8, Application US/09402036
 ;
 ; Patent No. 6391156
 ;
 ; GENERAL INFORMATION:
 ;
 ; APPLICANT: Estruch, Juan J.
 ; APPLICANT: Yu, Cao-Guo
 ; APPLICANT: Warren, Gregory W.
 ; APPLICANT: Desai, Nalini
 ; APPLICANT: Kozel, Michael
 ; APPLICANT: Carr, Brian
 ;
 ; TITLE OF INVENTION: Plant Pest Control
 ; FILE REFERENCE: S-2184C
 ; CURRENT APPLICATION NUMBER: US/09/402,036
 ; CURRENT FILING DATE: 2000-02-08
 ; PRIOR APPLICATION NUMBER: -PCT/EP98/01952
 ; PRIOR FILING DATE: 1998-04-02
 ; PRIOR APPLICATION NUMBER: 08/838,219
 ; PRIOR FILING DATE: 1997-04-03
 ; PRIOR APPLICATION NUMBER: 08/832,263
 ; PRIOR FILING DATE: 1997-04-03
 ; PRIOR APPLICATION NUMBER: 08/832,265
 ; PRIOR FILING DATE: 1997-04-03
 ; PRIOR APPLICATION NUMBER: 08/463,483
 ; PRIOR FILING DATE: 1995-06-05
 ; PRIOR APPLICATION NUMBER: 08/314,594
 ; PRIOR FILING DATE: 1994-09-09
 ; PRIOR APPLICATION NUMBER: 08/218,018
 ; PRIOR FILING DATE: 1994-03-24
 ; PRIOR APPLICATION NUMBER: 08/037,057
 ; PRIOR FILING DATE: 1993-03-25
 ; NUMBER OF SEQ ID NOS: 22

SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO: 8
LENGTH: 1638
TYPE: DNA
ORGANISM: Agrotis ipsilon

FEATURE: CDS

NAME/KEY: CDS

LOCATION: (2)..(1189)

OTHER INFORMATION: Translation of cDNA encoding VIP3A(a) receptor

OTHER INFORMATION: from Black cutworm

US-09-02-036-8

Query Match Best Local Similarity 18.1%; Score 34; DB 4; Length 1638;

Matches 34; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTCGACCGTATCGATAAGCTTGATCGAATTCG 34

Db 1633 GTCGACCGTATCGATAAGCTTGATCGAATTCG 1600

RESULT 15
US-09-04-226-8/C

Sequence 8, Application US/09904226

Patent No. 6423360

GENERAL INFORMATION:

APPLICANT: Estruch, Juan J.

APPLICANT: Warren, Gregory W.

APPLICANT: Desai, Nalinil

APPLICANT: Koziel, Michael

APPLICANT: Nye, Gordon

TITLE OF INVENTION: Plant Pest Control

FILE REFERENCE: S-21284D

CURRENT APPLICATION NUMBER: US/09/904, 226

CURRENT FILING DATE: 2001-07-12

PRIOR APPLICATION NUMBER: PCT/EP98/01952

PRIOR FILING DATE: 1998-04-02

PRIOR APPLICATION NUMBER: 08/838, 219

PRIOR FILING DATE: 1997-04-03

PRIOR APPLICATION NUMBER: 08/463, 483

PRIOR FILING DATE: 1995-06-05

PRIOR APPLICATION NUMBER: 08/832, 263

PRIOR FILING DATE: 1997-04-03

PRIOR APPLICATION NUMBER: 08/832, 265

PRIOR FILING DATE: 1997-04-03

PRIOR APPLICATION NUMBER: 08/463, 483

PRIOR FILING DATE: 1995-06-05

PRIOR APPLICATION NUMBER: 08/314, 594

PRIOR FILING DATE: 1994-09-09

PRIOR APPLICATION NUMBER: 08/218, 018

PRIOR FILING DATE: 1994-03-24

PRIOR APPLICATION NUMBER: 08/037, 057

PRIOR FILING DATE: 1993-03-25

NUMBER OF SEQ ID NOS: 22

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO: 8

LENGTH: 1638

TYPE: DNA

ORGANISM: Agrotis ipsilon

FEATURE: CDS

NAME/KEY: CDS

LOCATION: (2)..(1189)

OTHER INFORMATION: Translation of cDNA encoding VIP3A(a) receptor

OTHER INFORMATION: from Black cutworm

US-09-904-226-8

Search completed: February 19, 2003, 08:30:42
Job time : 50 secs

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OM nucleic - nucleic search, using sw model

Run on:

February 19, 2003, 07:00:11 ; Search time 1949 seconds

(without alignments) 1562.212 Million cell updates/sec

Title: US-09-758-962-1

Perfect score: 188

Sequence: 1 gtcgacggatcgataagct.....gaagaagagtcaccatgg 188

Scoring table: OLIGO_NUC

Gapop 60.0 , Gapext 60.0

Word size : 0

Total number of hits satisfying chosen parameters: 32308132

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Listing first 45 summaries

Database : EST:
 1: em_estba: *
 2: em_estbum: *
 3: em_estin: *
 4: em_estmu: *
 5: em_estov: *
 6: em_estpl: *
 7: em_estro: *
 8: em_htc: *
 9: qb.esti: *
 10: qb.est2: *
 11: qb_htc: *
 12: qb.est3: *
 13: qb.est4: *
 14: qb.est5: *
 15: em_estun: *
 17: qb_gss: *
 18: em_gss_hum: *
 19: em_gss_inv: *
 20: em_gss_pln: *
 21: em_gss_vrt: *
 22: em_gss_fun: *
 23: em_gss_mam: *
 24: em_gss_mus: *
 25: em_gss_other: *
 26: em_gss_pro: *
 27: em_gss_rod: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

RESULT 1
 AU167182/c
LOCUS AU167182 OI-br-ad cDNA *Oryzias latipes* mRNA linear EST 29-JAN-2001
DEFINITION AU167182 OI-br-ad cDNA *Oryzias latipes* mRNA clone br0230, mRNA
SEQUENCE sequence.
ACCESSION AU167182
VERSION GI:12589251
KEYWORDS EST
SOURCE Japanese medaka
ORGANISM *Oryzias latipes*
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Actinopterygii; Teleostei; Guteleostei; Neoteleostei; Acanthopterygii; Teleostei; Percomorpha; Atherinomorpha; Beloniformes; Adrianichthyidae; Oryziinae; Oryzias.
AUTHORS Mita,K., Ishikawa,Y. and Yamauchi,M.
TITLE Establishment of cDNA database of medaka, *Oryzias latipes*
JOURNAL Unpublished (2001)
COMMENT Contact: Mita K
 Genome Research Group
 National Institute of Radiological Sciences
 Anagawa 4-9-1, Inage, Chiba 263-8555, Japan
 Email: kmita@irs.go.jp
 method:uni-directional sequence direction:sequenced from T3 primer
 (5' -> 3')
FEATURES location/Qualifiers
SOURCE 1..304
 /organism="Oryzias latipes"
 /strain="HNI"
 /strains="HNI"

RESULT 3
 BG139100/C
 LCCUS DEFINITION EST480142 wild tomato pollen mRNA linear EST 31-JAN-2001 CLPP13P12 5' sequence, mRNA sequence.

BASE COUNT 106 a 95 c 54 g 49 t
 ORIGIN

Query Match 20.2%; Score 38; DB 9; Length 304;
 Best Local Similarity 100.0%; Pred. No. 2.9e-06;
 Matches 38; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Db 304 GTCGACGGTATCGATAGCTGATCGAATTGTGA 267

RESULT 2
 BM141055
 LOCUS BM141055 818 bp mRNA linear EST 30-JUN-2002
 DEFINITION ZF0441 zebrafish Ovary Danio rerio CDNA 5', mRNA sequence.
 ACCESSION BM141055.1
 VERSION GI:21630868
 KEYWORDS zebrafish, EST, organim
 SOURCE Danio rerio
 ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes 1 (bases 1 to 818); Cyprinidae; Danio; Zeng, S. and Gong, Z.
 REFERENCE Unpublished (2002)
 AUTHORS Zeng, S. and Gong, Z.
 TITLE Zebrafish EST clones from testis and ovary cDNA libraries
 JOURNAL Contact: Zhiyan Gong
 COMMENT School of Biological Sciences
 National University of Singapore
 Lower Kent Ridge Road, Singapore 119260
 Tel: 65-9742860
 Fax: 65-9792486
 Email: disgzy@eionis.nus.edu.sg
 Seq primer: SK (5'-CGCTCTAGACCTAGGATC).
 FEATURES source
 /organism="Danio rerio"
 /db_xref="taxon:795"
 /clone_1ib="Zebrafish Ovary"
 /sex="female"
 /dev_stage="4-5 month-old female adult fish"
 /note="Organ: Ovary; Vector: Lambda Uni-ZAP XR; Site_1: EcoRI; Site_2: XbaI; Poly A+ RNA was isolated from the ovaries of 2 female adult zebrafish of 4-5 month-old and the cDNAs were made using oligo dT primers and inserted into Lambda ZAP vector at EcoRI (5'-cDNA) sites using Stratagene's Lambda Uni-ZAP XR cloning system."
 BASE COUNT 150 a 110 c 104 g 131 t
 ORIGIN

RESULT 3
 BM351825
 LOCUS BM351825 919 bp mRNA linear EST 29-JUL-2002
 DEFINITION Tgzz44h01.s1 TgME49 invivo Bradyzoite gondii CDNA clone Tgzz44h01.s1 5', mRNA sequence.
 ACCESSION BM351825
 VERSION GI:18084183
 KEYWORDS EST, Toxoplasma gondii, Toxoplasma gondii, Sarcozoa, Alveolata, Apicomplexa, Coccidia, Elmerida, Toxoplasmatidae, Toxoplasma
 SOURCE
 ORGANISM Eukaryota; Alveolata; Apicomplexa; Coccidia; Elmerida; Toxoplasmatidae; Toxoplasma
 REFERENCE
 AUTHORS Cleary,M.D., Singh,U., Blader,I.J., Brewer,J.L. and Boothroyd,J.C.
 TITLE
 Toxoplasma gondii asexual development: identification of developmentally regulated genes and distinct patterns of gene expression
 JOURNAL
 Eukaryotic Cell 1 (3), 329-340 (2002).
 COMMENT Contact: Upinder Singh
 Microbiology and Immunology
 Stanford University
 D-305 Fairchild Building, 300 Pasteur Drive Stanford, CA 94305, USA
 Tel: 650 723 7296
 Fax: 650 723 6853
 Email: usmg@stanford.edu
 Seq primer: T7
 High quality sequence start: 20
 High quality sequence stop: 700

FEATURES	POLYA=Yes	Location/Qualifiers
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	/organism="Toxoplasma gondii"	
	/strain="ME49"	
	/db_xref="taxon:5811"	
	/clone="Tgzz40h11.s1"	
	/clone_libr="TgME49 invivo Bradyzoite cDNA size selected"	
	/dev_stage="Bradyzoite"	
	/lab_host="DH10"	
	/note="vector: Bluescript II SK-; Site_1: EcorI; Site_2:	
	/note="vector: Bluescript II SK-; Site_1: EcorI; Site_2:	
		NotI; Mature bradyzoites were obtained from infected mouse brains by percoll density centrifugation. The original library was constructed by Steve Parmley, Palo Alto Medical Foundation. cDNAs were synthesized by priming with oligo d(T) and directionally cloned into the EcorI/NotI sites of lambda gt11. Warning: the library contains a small percentage of host cDNAs derived from mouse cells. Inserts from this cDNA library were excised with NotI and EcoRI, size selected in a range of 0.7 - 2.0 kb and subcloned into Bluescript II SK- (Adrian Hehl, Ian Manger and John Boothroyd, Stanford University)"
BASE COUNT	217 a	232 g 231 t 20 others
ORIGIN		
	Query Match	18.6%; Score 35; DB 13; Length 919;
	Best Local Similarity	100.0%; Pred. No. 8.6e-07;
	Matches	35; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY	1	GTCGACGGATCGATAACCTGTGATATCGAATTCT 35
Db	30	GTCGACGGATCGATAACCTGTGATATCGAATTCT 64
RESULT 5		
Locus	BM351824	945 bp mRNA linear EST 29-JUL-2002
DEFINITION	Tgzz40h11.s1 TgME49 invivo Bradyzoite cDNA size selected	Toxoplasma gondii cDNA clone Tgzz40h11.s1 5' mRNA sequence.
ACCESSION	BM351824	
VERSION	BM351824.1	GI:18084182
KEYWORDS		
SOURCE		
ORGANISM		
REFERENCE		
AUTHORS	Cleary,M.D., Singh,U., Blader,I.J., Brewer,J.L. and Boothroyd,J.C.	
TITLE	Toxoplasma gondii asexual development: identification of developmentally regulated genes and distinct patterns of gene expression	
JOURNAL	Eukaryotic Cell 1 (3), 329-340 (2002)	
COMMENT	Contact: Upinder Singh Microbiology and Immunology D-305 Fairchild Building, 300 Pasteur Drive Stanford, CA 94305, USA Tel.: 650 723 7296 Fax: 650 723 6853 Email: ussingh@stanford.edu Seq primer: T7 High quality sequence start: 50 High quality sequence stop: 750	
POLYA=No		
FEATURES		
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	/dev_stage="Bradyzoite"	
	/lab_host="DH10"	
	/note="vector: Bluescript II SK-; Site_1: EcorI; Site_2:	
		NotI; Mature bradyzoites were obtained from infected mouse brains by percoll density centrifugation. The original library was constructed by Steve Parmley, Palo Alto Medical Foundation. cDNAs were synthesized by priming with oligo d(T) and directionally cloned into the EcorI/NotI sites of lambda gt11. Warning: the library contains a small percentage of host cDNAs derived from mouse cells. Inserts from this cDNA library were excised with NotI and EcoRI, size selected in a range of 0.7 - 2.0 kb and subcloned into Bluescript II SK- (Adrian Hehl, Ian Manger and John Boothroyd, Stanford University)"
BASE COUNT	199 a	182 c 266 g 261 t 37 others
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	Query Match	18.6%; Score 35; DB 13; Length 945;
	Best Local Similarity	100.0%; Pred. No. 8.6e-07;
	Matches	35; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY	1	GTCGACGGATCGATAACCTGTGATATCGAATTCT 35
Db	46	GTCGACGGATCGATAACCTGTGATATCGAATTCT 80
RESULT 6		
Locus	BM351823	1300 bp mRNA linear EST 29-JUL-2002
DEFINITION	Tgzz40d09.s1 TgME49 invivo Bradyzoite cDNA size selected	Toxoplasma gondii cDNA clone Tgzz40d09.s1 5' end sequenced, mRNA sequence.
ACCESSION	BM351823	
VERSION	BM351823.1	GI:18084181
KEYWORDS		
SOURCE		
ORGANISM		
REFERENCE		
AUTHORS	Cleary,M.D., Singh,U., Blader,I.J., Brewer,J.L. and Boothroyd,J.C.	
TITLE	Toxoplasma gondii asexual development: identification of developmentally regulated genes and distinct patterns of gene expression	
JOURNAL	Eukaryotic Cell 1 (3), 329-340 (2002)	
COMMENT	Contact: Upinder Singh Microbiology and Immunology D-305 Fairchild Building, 300 Pasteur Drive Stanford, CA 94305, USA Tel.: 650 723 7296 Fax: 650 723 6853 Email: ussingh@stanford.edu Seq primer: T7 High quality sequence start: 50 High quality sequence stop: 750	
POLYA=No		
FEATURES		
SOURCE		Location/Qualifiers
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	/organism="Toxoplasma gondii"	
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	/clone_libr="TgME49 invivo Bradyzoite cDNA size selected"	
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	/note="vector: Bluescript II SK-; Site_1: EcorI; Site_2:	
		NotI; Mature bradyzoites were obtained from infected mouse brains by percoll density centrifugation. The original library was constructed by Steve Parmley, Palo Alto Medical Foundation. cDNAs were synthesized by priming with oligo d(T) and directionally cloned into the EcorI/NotI sites of lambda gt11. Warning: the library contains a small percentage of host cDNAs derived from mouse cells. Inserts from this cDNA library were excised with NotI and EcoRI, size selected in a range of 0.7 - 2.0 kb and subcloned into Bluescript II SK- (Adrian Hehl, Ian Manger and John Boothroyd, Stanford University)"

	BASE COUNT	284 a	296 c	316 g	290 t	114 others	VERSION	AW042087.1	GI:5900919
	ORIGIN						KEYWORDS	EST.	
Query Match		18.6%		Score 35; DB 13;	Length 1300;		SOURCE	Brugia malayi.	
Best Local Similarity		100.0%		Pred. No. 8.6e-07;			ORGANISM	Eukaryota; Metazoa; Nematoda; Chromadorea; Spirurida; Filarioidea;	
Matches		35;	Conservative	0;	Mismatches 0;	Indels 0;	REFERENCE	Onchocercidae; Brugia.	
OY	1	GTCGACGGTATCGATAAGCTTGATATCGATTGT	35			Gaps 0;	AUTHORS	Williams, S.A.	
Db	56	GTCGACGGTATCGATAAGCTTGATATCGATTGT	90				TITLE	Genes expressed in fourth stage larvae of <i>Brugia malayi</i>	
ACCESSION							COMMENT	Unpublished (1999)	
VERSION								Contact: Steven A. Williams	
SOURCE								Molecular Parasitology	
ORGANISM								Smith College Department of Biological Sciences	
Brugia malayi.								Department of Biological Sciences, Clark Science Center, Smith	
Eukaryota; Metazoa; Nematoda; Chromadorea; Spirurida; Filarioidea;								College, Northampton, MA, 01063, USA	
Onchocercidae; Brugia.								Fax: 4135853826	
52 bp mRNA linear EST 15-NOV-1999								Email: genome@smith.edu	
AW172124/c		AW172124					Seq primer: pbblueprint sk.		
LOCUS		SWL4CAK07B01SK	Brugia malayi L4 cDNA (SAW99MLW-BmL4)				Location/Qualifiers		
DEFINITION									
Accession									
AW172124									
VERSION									
KEYWORDS									
SOURCE									
ORGANISM									
Brugia malayi.									
Eukaryota; Metazoa; Nematoda; Chromadorea; Spirurida; Filarioidea;									
Onchocercidae; Brugia.									
52 bp mRNA linear EST 15-NOV-1999									
AW172124.1		GI:6431920							
EST.									
Brugia malayi.									
Brugia malayi.									
Onchocercidae; Brugia.									
1 (bases 1 to 52)									
Williams, S.A.									
Genes expressed in fourth stage larvae of <i>Brugia malayi</i>									
JOURNAL									
Unpublished (1999)									
COMMENT									
Contact: Steven A. Williams									
Molecular Parasitology									
Smith College Department of Biological Sciences									
Department of Biological Sciences, Clark Science Center, Smith									
College, Northampton, MA, 01063, USA									
Fax: 4135853826									
Email: genome@smith.edu									
Seq primer: pbblueprint sk.									
FEATURES									
SOURCE									
ORGANISM									
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Xho I; Lymphatic filarial nematode parasite of humans."									
mRNA was prepared from <i>l4s</i> isolated from the peritoneal									
cavity of Jirds and converted to double-stranded cDNA									
using reverse transcriptase and oligo(dT) followed by									
RNase H and DNA pol I. The library has 2.7 x 10 ⁵									
independent recombinants and the average insert size is									
approx. 1050bp. The library was constructed by Michelle									
Lizotte-Waniekwi. The library is available from Dr. S.A.									
Williams, email:genome@neural.smith.edu."									
Williams, email:genome@neural.smith.edu."									
FEATURES									
SOURCE									
ORGANISM									
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Xho I; Lymphatic filarial nematode parasite of humans."									
mRNA was prepared from <i>l4s</i> isolated from the peritoneal									
cavity of Jirds and converted to double-stranded cDNA									
using reverse transcriptase and oligo(dT) followed by									
RNase H and DNA pol I. The library has 2.7 x 10 ⁵									
independent recombinants and the average insert size is									
approx. 1050bp. The library was constructed by Michelle									
Lizotte-Waniekwi. The library is available from Dr. S.A.									
Williams, email:genome@neural.smith.edu."									
FEATURES									
SOURCE									
ORGANISM									
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Xho I; Lymphatic filarial nematode parasite of humans."									
mRNA was prepared from <i>l4s</i> isolated from the peritoneal									
cavity of Jirds and converted to double-stranded cDNA									
using reverse transcriptase and oligo(dT) followed by									
RNase H and DNA pol I. The library has 2.7 x 10 ⁵									
independent recombinants and the average insert size is									
approx. 1050bp. The library was constructed by Michelle									
Lizotte-Waniekwi. The library is available from Dr. S.A.									
Williams, email:genome@neural.smith.edu."									
FEATURES									
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/dev_stage="larval stage four"									
/lab_host="XLI-Blue MRF"									
/note="Vector: Lambda Uni-ZAP XR; site_1: Eco RI; site_2:									
Xho I; Lymphatic filarial nematode parasite of humans."									
mRNA was prepared from <i>l4s</i> isolated from the peritoneal									
cavity of Jirds and converted to double-stranded cDNA									
using reverse transcriptase and oligo(dT) followed by									
RNase H and DNA pol I. The library has 2.7 x 10 ⁵									
independent recombinants and the average insert size is									
approx. 1050bp. The library was constructed by Michelle									
Lizotte-Waniekwi. The library is available from Dr. S.A.									
Williams, email:genome@neural.smith.edu."									
FEATURES									
SOURCE									
ORGANISM									
Brugia malayi.									
1. .53									
Location/Qualifiers									
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/note="Vector: Lambda Uni-ZAP XR; site_1: Eco RI; site_2:									
Xho I; Lymphatic filarial nematode parasite of humans."									
mRNA was prepared from <i>l4s</i> isolated from the peritoneal									
cavity of Jirds and converted to double-stranded cDNA									
using reverse transcriptase and oligo(dT) followed by									
RNase H and DNA pol I. The library has 2.7 x 10 ⁵									
independent recombinants and the average insert size is									
approx. 1050bp. The library was constructed by Michelle									
Lizotte-Waniekwi. The library is available from Dr. S.A.									
Williams, email:genome@neural.smith.edu."									
FEATURES									
SOURCE									
ORGANISM									
Brugia malayi.									
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Xho I; Lymphatic filarial nematode parasite of humans."									
mRNA was prepared from <i>l4s</i> isolated from the peritoneal									
cavity of Jirds and converted to double-stranded cDNA									
using reverse transcriptase and oligo(dT) followed by									
RNase H and DNA pol I. The library has 2.7 x 10 ⁵									
independent recombinants and the average insert size is									
approx. 1050bp. The library was constructed by Michelle									
Lizotte-Waniekwi. The library is available from Dr. S.A.									
Williams, email:genome@neural.smith.edu."									
FEATURES									
SOURCE									
ORGANISM									
Brugia malayi.									
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Location/Qualifiers									
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/clone="SWL4CAK03G05"									
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				COMMENT
Locus	AW626545/c	66 bp	mRNA	linear EST 30-MAR-2000
DEFINITION	SW0V3CAN65F04SK	Onchocerca volvulus	infective larva cDNA	
ACCESSION	(SAM9WL-OVL3)	Onchocerca volvulus	cDNA clone SW0V3CAN65F04	5'
VERSION	AW626545		mRNA sequence.	
KEYWORDS	EST.			
REFERENCE				
AUTHORS	William,S.A., Lizotte,Waniewski,M. and Laney,S.J.			
JOURNAL	Unpublished (1995)			
COMMENT	1. (bases 1 to 66) Genes expressed in infective third stage larvae of Onchocerca volvulus. Onchocerca volvulus Eukaryota; Metazoa; Nematoda; Chromadorea; Spirurida; Filarioidea; Onchoecercidae; Onchocerca.			
FEATURES	Seq primer: pbblueScript SK.			
source	location/Qualifiers			
	1. .66			
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	/clone="SW0V3CAN65F04"			
	(SAM9WL-OVL3)"			
	/lab_host="XLI-Blue MRF"			
	/note="Vector: Lambda Unizap XR; Site_1: ECO RI; Site_2:			
	Xba I; Cutaneous filarial nematode parasite of humans."			
	mrna was prepared from third stage infective larvae of Onchocerca volvulus isolated from mosquitoes 10 days after infection and converted to double stranded cDNA using reverse transcriptase and oligo(dT) followed by RNase H recombinants and average insert size was 900 base pairs.			
	The library was constructed by Weihong Lu. The library is available from Dr. S.A. Williams, email genome@smith.edu."			
BASE COUNT	11 a 15 c 29 t			
ORIGIN	11 g			
RESULT 13	AW159927/c			
DEFINITION	AW159927	68 bp	mRNA	linear EST 05-NOV-1999
LOCUS	SWL4CAK04D11SK	Brugia malayi	L4	cDNA (SAM9MLW-BMl4) Brugia malayi
ACCESSION	SWL4CAK04D11SK			cDNA clone SWL4CAK04D11 5', mRNA sequence.
VERSION	AW159927			
KEYWORDS	EST.			
SOURCE	Brugia malayi.			
ORGANISM	Brugia malayi.			
	Bukarrotta; Metazoa; Nematoda; Chromadorea; Spirurida; Filarioidea;			
	Onchoecercidae; Brugia.			
	1 (bases 1 to 68)			
REFERENCE	Williams,S.A.			
AUTHORS	Genes expressed in fourth stage larvae of Brugia malayi			
JOURNAL	Unpublished (1995)			
COMMENT				
FEATURES	Seq primer: PBblueScript SK.			
source	location/Qualifiers			
	1. .68			
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	/db_xref="taxon:6279"			
	/clone="SWL4CAK04D11"			
	/clone_lib="Brugia malayi L4 cDNA (SAM9MLW-BMl4)"			
	/dev_stage="larval stage four"			
	/lab_host="XLI-Blue MRF"			
	/note="Vector: Lambda Uni-ZAP XR; Site_1: ECO RI; Site_2:			
	Xba I; Lymphatic filarial nematode parasite of humans."			
	mrna was prepared from 114s isolated from the peritoneal cavity of jirds and converted to double stranded cDNA using reverse transcriptase and oligo(dT) followed by RNase H and DNA Pol I. The library has 2.7 x 105 independent recombinants and the average insert size is approx. 1050bp. The library was constructed by Michelle Lizotte-Waniewski. The library is available from Dr. S.A. Williams, email genome@smith.edu."			
BASE COUNT	14 a 15 c 13 g			
ORIGIN	26 t			
RESULT 14	AI066878/c			
DEFINITION	AI066878	91 bp	mRNA	linear EST 31-JUL-1998
LOCUS	SWBML3SDI03H08SK	Brugia malayi	L3	subtracted cDNA library or 3', mRNA sequence.
ACCESSION	AI066878			
VERSION	AI066878.1			
KEYWORDS	EST.			
SOURCE	Brugia malayi.			
ORGANISM	Brugia malayi.			
	Eukaryota; Metazoa; Nematoda; Chromadorea; Spirurida; Filarioidea;			
	Onchoecercidae; Brugia.			
	1 (bases 1 to 91)			
REFERENCE				
AUTHORS	1. Saunders,L. and Williams,S.A.			
TITLE	Specifical and Upregulated Gene Expression in the Third Stage Larvae of Brugia malayi			
JOURNAL	Unpublished (1998)			
COMMENT	Contact: Steven A. Williams			
FEATURES	Molecular Parasitology			
source	Smith College Department of Biological Sciences, Clark Science Center, Smith College, Northampton, MA, 01063, USA			
	Tel: 413583826			
	Fax: 413583786			
	Email: genome@smith.edu			
	Seq primer: SK.			
	location/Qualifiers			
	1. .91			
	/organism="Brugia malayi"			
	/db_xref="taxon:6279"			
	/clone="SWBML3SDI03H08"			
	/clone_lib="Brugia malayi L3 subtracted cDNA library (SAM9LS-BMl3SD)"			

ORIGIN

Qy	Db	Query Match Matches	Score 18 1%	DB 100 0%	Length 92;
1	41	Best Local Matches	34; Conservative	Pred. No. 2.8e-06;	Indels 0; Gaps 0;
				Mismatches 0;	

Query Match 18 1%; Score 34; DB 9; Length 92;
 Best Local Matches 34; Conservative 0; Mismatches 0;
 Indels 0; Gaps 0;

Qy 1 GTCGACGGTATCGATAAGCTGTGATATCGATTG 34
 Db 41 GTCGACGGTATCGATAAGCTGTGATATCGATTG 8

Search completed: February 19, 2003, 08:29:42
 Job time : 1953 secs

RESULT 15

AA680557/c	AA680557	Query Match Matches	Score 18 1%	DB 100 0%	Length 91;
LOCUS	AA680557	Best Local Matches	34; Conservative	Pred. No. 2.8e-06;	Indels 0; Gaps 0;
DEFINITION	'SWOVL3CAN03D08SK Onchocerca volvulus mRNA clone SWOVL3CAN03D08 5', (SWOVL3-ovl3) Onchocerca volvulus cDNA clone SWOVL3CAN03D08 5', mRNA sequence.				
REFERENCE	1 (bases 1 to 92)				
ACCESSION	AA680557				
VERSION	AA680557.1				
KEYWORDS	EST.				
SOURCE	Onchocerca volvulus.				
ORGANISM	Onchocerca volvulus				
Eukaryota; Metazoa; Nematoda; Chromadorea; Spirurida; Filarioidea; Onchocercidae; Onchocerca.					
AUTHORS	Williams,S.A., Lu,W., Lizzotte-Waniek,M. and Laney,S.J.				
TITLE	Genes expressed in infective third stage larvae of Onchocerca volvulus				
JOURNAL	Unpublished (1995)				
COMMENT	Contact: Steven A. Williams				
Smith College Department of Biological Sciences, Department of Biological Sciences, Clark Science Center, Smith College, Northampton, MA, 01063, USA Tel: 413/5853826 Fax: 413/5853786 Email: genome@smith.edu					
Seq primer: PB1uescript SK.					
FEATURES	Location/Qualifiers				
SOURCE	1. .92				
/organism="Onchocerca volvulus"					
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/clone="SWOVL3CAN03D08"					
/clone_lib="Onchocerca volvulus infective larva cDNA (SAM94WL-Ovl3)"					
/lab_host="XLI Blue MRF"					
/note="Vector: Lambda Unizap XR; Site_1: Eco RI; Site_2: Xba I; Cutaneous filarial nematode parasite of humans."					
mRNA was prepared from third stage infective larvae of Onchocerca volvulus isolated from mosquitoes 10 days after infection and converted to double stranded cDNA using reverse transcriptase and oligo(dT) followed by RNase H					
and DNAPol I. The library had 1.8 x 10E5 independent recombinants and average insert size was 900 base pairs.					
The library was constructed by Wenhong Lu. The library is available from Dr. S.A. Williams, email genome@smith.edu."					
BASE COUNT	20 a 26 C 23 g 22 t				
BASE COUNT	21 a 26 C 23 g 22 t				
BASE COUNT					